BX - O

File No. KA EX1

KA EXIA

KA EXIB

KA EXIC

BX - O

# BASIC EXCHANGE PARALLEL MAINTENANCE PROGRAM

September 1, 1961

- 1. Maintenance program. Used to test data paths to and from I/O units and to and from main memory independent of CPU.
- 2. Programs becoming obsolete. None.
- 3. KA EXI and KA EXIA are applicable to systems using 48 ECS printer code. KA EXIB and KA EXIC are applicable to systems using 48 BCD printer code.

## TABLE OF CONTENTS

|    |             |         |                           | Page |
|----|-------------|---------|---------------------------|------|
| ۱. | PUR         | POSE    |                           | 1    |
| 2. | EQU         | IPMENT  | REQUIREMENTS              | 1*   |
| 3. | MOD         | ES OF C | CONTROL                   | 2    |
|    | 3.1         | Self Co | ontrol                    | 2    |
|    |             | 3.1.1   | Procedure                 | 2    |
|    |             | 3.1.2   | Success Indications       | 13   |
|    |             | 3. 1. 3 | Failure Indications       | 13   |
|    |             | 3. 1. 4 | Supplementary Information | 14   |
|    | <b>3.</b> 2 | DCP C   | ontrol (Not Applicable)   |      |
| ١. | PRO         | ORAM P  | PHILOSOPHY                | 15   |

# 1. PURPOSE

The purpose of the BX-0 Maintenance Program is to test data paths to and from the I/O units and to and from Main Memory, independent, of CPU.

2. EQUIPMENT REQUIREMENTS

N- Necessary for Basic Testing

A- Additional Requirements for Full Testing

\* - Exception

2.1 Testing Requirements

| 0-8K | <b>8K-</b> 16K | 16K-32K | 32K-Above | Ops<br>Console | Card<br>Reader |
|------|----------------|---------|-----------|----------------|----------------|
|      |                | N       |           | N              | . N            |

| Punch | Printer | Disc | Tapes | <del>,</del> |  |
|-------|---------|------|-------|--------------|--|
| N     | N       |      | N     |              |  |

2.2 Buffer Equipment Requirements

| Disc | Tapes |
|------|-------|
|      |       |
|      | ,     |
|      |       |

### 3. MODE OF CONTROL

#### 3.1 Self Control

BX-O is exclusively a manually operated test, since it is independent of the CPU. It requires the operator to manually set the bits on the exchange maintenance console and manually execute all instructions. The output from each I/O unit test is indicated in the section containing the instructions for that test.

### 3.1.1 Procedure

# I. INITIAL LOAD PROCEDURE

The program can be loaded by normal IPL procedure. If IPL is inoperative, the following can be used:

1. By BX manipulation, place the following CW in a main memory location not used by the program.

Data Word Address - SLC Value
Word Count - As shown in the program listing
Refill - 0
Chain flag - 0, Multiple flag - 1

2. Read by executing the CW in the location in which it was stored by step 1.

## II. OVERALL PROCEDURE

All tests of BX-0 require the operator to manually execute control words in Main Memory and to execute various Control and Locate instructions. The following procedure should be followed in the execution of these instructions:

## A. Reading or Writing

- 1. Place the BX mode switch in the TEST MODE position.
- 2. Depress CLEAR MEMORY pushbutton.
- 3. Set "Type of Test" to EX MEM.
- 4. From the BX-0 listing, obtain the main memory address of control word desired. Place this address in the REFILL ADDRESS of the panel keys.

- 5. In the EXCHANGE MEMORY ADDRESS switch register, enter the CHANNEL NUMBER desired and bit 128 (Control Word Memory). Make the total parity ODD.
- 6. Depress the "LOAD MEMORY" switch.
- 7. Depress SINGLE CYCLE pushbutton twice.
- 8. Turn OFF the load memory switch.
- 9. In the exchange memory address switch register, turn OFF bit 128. Parity should now be even.
- 10. Be sure the channel to be used is NOT blocked by the BLOCK CHANNEL switches. All data word transfer, service request, and channel signal simulation switches should be OFF.
- 11. Set type of test to Main Memory UNIT.
- 12. Depress the READ or WRITE pushbutton depending upon instruction desired.
- 13. Depress the SINGLE CYCLE pushbutton and check ACCEPT response.
- 14. Depress the START Key. The instruction entered will now be executed.
- 15. To insure proper operation, stop BX and SINGLE CYCLE through BX control word memory until the channel used is selected. At this time, examine the control word for proper interrupt status bits, data word address, and word count setting. Unless otherwise stated, the normal status bit setting is EOP—The flag bits (chain, multiple, and skip) should still be at their original setting.

## B. Control or Locate Operations

- 1. Place the BX Mode switch in the TEST MODE position.
- 2. Depress CLEAR MEMORY pushbutton.

- 3. Set "type of test" to UNIT TEST.
- 4. Set the desired channel number in the EXCHANGE MEMORY ADDRESS switch register, even parity count. (Bit 128 must be OFF.)
- 5. In the C<sub>0</sub> C<sub>t</sub> panel switches, enter the CONTROL CODE or LOCATE NUMBER desired.
- 6. Depress the CONTROL or LOCATE pushbutton.
- 7. Depress SINGLE CYCLE pushbutton and check for ACCEPT response:
- 8. Depress the START pushbutton and the STOP.
- III. INDIVIDUAL TEST PROCEDURE AND OUTPUT

### A. Chain Printer Tests

- 1. Execute the control words as shown on the program listing following the overall test procedure.
- 2. Check printout for correst data as shown below.

PRT 1 operates with chain, multiple, and skip flags zero. Printout is:

THIS LINE OF PRINT CHECKS THE ABILITY TO PRINT. AB -- YZ12-90%./- #\$&+%

PRT 2 operates with multiple flag only set. Printout is an all character print, three lines, each identified. Failure will cause only one line to be printed.

PRT 3 operates with multiple flag set and tests the ability to recognize end codes. Printout is three lines each identified. On failure - All data will be on one line.

PRT 4 tests BX for word count of 1. Printout is WDCT 1-for sucess WDCT 1 FAILURE - on failure

PRT 4A tests BX for word count of 2. The printout is: WORD COUNT 2 - On success WORD COUNT 2 FAILURE - on failure.

PRT 5 operates with multiple and chain flags set. Printout is all data from the above tests, a total of 109 64-bit words.

PRT 6 is a scoping loop which prints the all character print data.

PRT 7 is a scoping loop which prints the end code print data.

PRT 8 is a Suppress Post Spacing test loop. It will suppress post spacing 4 times in each line. For success, all data will be on one line, with normal spacing.

PRT 8 - NOW IS A SUPPRESS POST SPACING TEST LOOP.

PRT 9 is a test of the Select Report functions. It prints according to the Select Report key depressed. If no Select Report keys are depressed all of the select report data will be printed.

The test operates in a continuous loop.

PRT 9 - THIS LINE SHOULD BE PRINTED IF SELECT REPORT 'a' IS DEPRESSED.

Where 'a' corresponds to the Select Report key depressed.

#### B. Card Reader Tests

- 1. Place reader test deck in card reader and make reader ready. The test deck is numbered octally in column 80.
- 2. Execute the control words to read in the test deck.
- 3. Execute the control words for printout or manually fetch the data and compare.

The first test operates with skip, chain, and multiple flags set. The sequence of data is as follows:

1. One Card Read

CARD 1 ..... FIRST CARD READ ... DATA IS IN IQS FORMAT. WORD COUNT ON READ WAS 15. READER PATTERNS IN LATER TEST

- Word Count 1 Test. On success WDCT1 On failure WDCT 1 FAILURE IF THIS PRINTS
  OR IS IN MEMORY WD CNT-1 was not handled by BX . . . . .
- 3. Word Count 2 Test. On success WORD COUNT 2 On failure WORD COUNT 2 FAILURE
- 4. Skip Flag Test. On success THIS IS THE SKIP READ AREA . . . . . CARD 4 SKIP FLAG TEST On failure IF THIS PRINTS SKIP FLAG FAILED.
- 5. Multiple Flag Test 3 cards read. Lines of print begin as follows:

CARD 5 CARD 6 CARD 7

If only one card reads, MF failed and remainder of test will be out of sequence.

6. Long Read Test - 10 cards read. Lines of print begin as follows:

CARD 8
CARD 9
CARD 10
CARD 11
CARD 12
CARD 13
CARD 14
CARD 15
CARD 16
CARD 17

7. Chain Flag Only Test. For success - CARD 18.
TWO CARD READ WITH MF-0. ONLY ONE CARD
SHOULD READ .... On failure - THIS CARD SHOULD
NOT BE READ CARD 19

## C. Tape Unit Tests

1. Execute the control words and control instructions at the proper time by following the program listing.

-5-

Since most tape operations require control conditions such as rewind, backspace, etc., the tape test requires that the operator perform these operations from BX following the program listing. Many of the tests are designed specifically to test a particular control function and, therefore, must be run as specified by the program listing. Correct operation is evidenced by the correct printout as shown under the description of each of the five tests.

Test 1. Simple Data and Rewind. Check read-in area manually.

Data: An all 1's 8-bit byte shifts left continuously until an all

0's word is reached. Following this an all 1's word, a 101010

word, and a 010101 word.

Test 2. Data and backspace test. Data checked by printing results on the printer. Data follows:

For Success - TEST 2. DATA AND BACKSPACE TEST THIS IS RECORD 1 - TEST TWO .... 10 WORDS, CDSC...

TEST 2. RECORD 2 - 15 WORDS, CDSC .. DATA FOLLOWS --- AB ... YZ01 ... 89 ------RECORD 3 IS BKSP TEST.

TEST 2. BACKSPACE WORKED IF THIS LINE 3 TEST 2. TEST 2 RECORD 4. 10 WORDS CR. XXXXXXXXXXX

On Failure - IF THIS PRINTS, BACKSPACE FAILED ..

Test 3. Tape Mark Recognition Test. Data checked by printing results on the printer. Data follows:

For Success - TAPE MARK RECOGNITION RECORD 1.

On Failure - IF THIS PRINTS, TAPE MARK FAILED.

Test 4. Backspace file test. Data checked by printing results on the printer. Data follows:

For Success - TEST 4. BACKSPACE FILE TEST TEST 4. BACKSPACE FILE TEST PASSED .....

On Failure - TEST 4. BACKSPACE FILE FAILED.

Test 5. Space File Test. Data checked by printing results on printer. Data follows:

For Success - TEST 5. SPACE FILE TEST PASSED.

On Failure - SPACE FILE, TEST 5. FAILED. XXXXXXXXXXX

Also included is a sequence of control words which reproduce the program on tape. The tape can then be loaded by IPL procedure.

### D. Operator's Console Tests

In the operator's console tests the following is provided.

- 1. Constants for writing on the console display and typewriter.
- 2. Reserved locations for reading the console switches and typewriter.
- 3. Extended typewriter write operations tests,

The procedure for each test follows.

Test 1 and 2. Write Operation

- 1. Execute the control words write having the console channel selected.
- 2. After each control word is executed, check the display for the data indicated.

Test 1. Chain, multiple and skip flags zero.

Word one - 1. Byte number word which numbers the 8-bit bytes left to right 0-7.

- 2. All 1's word
- 3. All 0's word
- 4. Alternate 1's and 0's 8 bit bytes.

Word two - 1. All 8's word

2. All 7's word

3. Blank word

Word three - 1. All 1's word

Test 2. Chain flag set, multiple and skip flags zero.

Chaining two words -

Word 1 - Byte pattern

Word 2 - All 8's

Chaining three words -

Word 1 - All l's

Word 2 - All 8's

Word 3 - All 0's

### Test 3 and 4. Read Operation

- 1. Set up data patterns in the console switches and digital pot.
- 2. Execute the control word to read the switches.
- 3. Execute the same control word to write the data for checking.
- 4. Change the patterns and repeat step 2 and 3 for a more complete test.

### Test 3. All flag bits zero.

- 1. Read 1 word
- 2. Read 2 words
- 3. Read 3 words

### Test 4. Chain flag set.

- 1. Chains 2 words
- 2. Chains 3 words

Tests 5, 6 and 7. Typewriter write operation.

- i. Execute the control words.
- 2. Check the printout for correct results.

Test 5. Chain, multiple, and skip flags zero.

- 1. One word on success TYP TST on failure TYP TST FAILED
- 2. End Code Test on success END CODE TEST on failure END CODE TEST FAILED
- 3. One line which is A thru Z 1 thru 0

Test 6. Chain flag set.

- 1. Chain 2 words on success CHAINING TEST S
  on failure FAILED
- 2. Chain 3 words on success CHAINING TEST SUCCESS on failure FAILED

### Test 7. Chain and Multiple flags set

- 1. Multiple flag and end code on success MLTIPLE TEST SUCCESSFUL
  On failure Spaces between 'MLTPLE' and 'TEST'.
- 2.. Simultaneous end code and word count zero on success MC TST SUCCESS \*

  On failure Spaces between 'TEST' and 'SUCCESS'.

## Test 8 and 9. Typewriter Read Operation

- 1. Execute control words and read console.
- 2. Enter data from console typewriter.
- 3. Using the same control words and write out data for checking.

Test 8. Chain and multiple flags set.

- 1. Read 40 characters, no flags set.
- 2. Read 40 characters, chain, read 32 more.
- 3. Read words multiple flag mode.
- 4. Read 25 words with multiple flag set.
- 5. Read 10 words with the multiple flag set, chain, read 8 more words.

Test 9. Chain, multiple and skip flags set.

- 1. Skip 5 words, read 3 with chain flag only set.
- 2. Skip 4 words in multiple block mode, chain, read 5 more words.

In the read tests with the multiple flag set, and an end code is entered, the next three words will be read from the console switches.

Typewriter Tests

1. Backspace test loop.

Loops and types - This is a BACKSPACE test.

2. Ripple test.

Types 26 lines upper case letters.

3. All character ball movement test.

Loops and types all characters.

E. Card Punch Tests

Tables of punch formats for checking pattern cards.

1 1. Non ECC-Mode, 15 words per card-Starting bit position.

| Word | Column     | Row |
|------|------------|-----|
| 1    | 1          | 12  |
| 2    | 6          | 2   |
| 3    | 11         | 6'. |
| 4    | 17         | 12  |
| 5    | 22         | 2   |
| 6    | 2 <b>7</b> | 6   |
| 7    | . 33       | 12  |
| 8    | 38         | 2   |
| 9    | 43         | 6   |
| 10   | 49         | 12  |
| 11   | 54         | 2   |
| 12   | 59         | 6   |
| 13   | 65         | 12  |
| 14   | 70         | 2   |
| 15   | 75         | 6   |

2. ECC Mode, 13 words per card.

All words begin with the C-bits in Row 12

| Word | Column |
|------|--------|
| 1    | 1      |
| 2    | 7      |
| 3    | 13     |
| 4    | 19     |
| 5    | 25     |
| 6    | 31     |
| 7    | 37     |
| 8    | 43     |
| 9    | 49     |
| 10   | 55     |
| 11   | 61     |
| 12   | 67     |
| 13   | 73     |

3. Table of bits on which the ECC bits are based.

| ECC Bits | Data Bits                 |
|----------|---------------------------|
| C-0      | 0-32                      |
| C-1      | 1, 3, 5,61, 63, & 32      |
| C2       | 2-3, 6-7, 10-11, 62-63    |
| C-4      | 4-7, 12-15, 60-63         |
| C-8      | 8-15, 24-31, 40-47, 56-63 |
| C-16     | 16-31, 48-63              |
| C-32     | 0, 32-63                  |

C-T is based on overall parity including ECC bits.

Card Punch Test Procedure

- 1. Make card punch ready.
- 2. Execute the control words with a write instruction to the card punch.
- 3. Examine the cards if in the pattern tests, or if in the extended tests use the control words provided for the card reader and printer to check the data.

#### 1. Test 1. Punch Pattern Cards

Non ECC Mode - Punches a diagonal pattern from Column 1, Row 12, to Column 12, Row 9, a total of 13 cards punched.

#### ECC Mode

- 1. Punch 9 cards and floats a 'l' in the C-bits.
- 2. Punch 9 cards and floats a '0' in the C-bits.

#### Test 2. Extended Punch Tests

This test uses printer data and the card reader and chain printer for checking. Each test card is identified with an octal number in the last column.

### 3.1.2. Success Indications

The success indications are indicated in the detailed test procedure.

#### 3.1.3 Failure Indications

The failure indications are listed in the detailed test procedure.

## 3.1.4 Supplementary Information

I. Strap Code Control Word Format

The format for a Strap Coded Control Word is as follows:

CW(OP), Data Word Address, Word Count, Refill, where 'OP' is coded as in the table below:

| <u>OP</u> | Skip<br>Flag | Multiple<br>Flag | Chain<br>Flag | Operation                                       |
|-----------|--------------|------------------|---------------|---|
| CR ,      | 0            | 0                | 0             | Count Within Record                             |
| CCR       | 0            | 0                | 1             | Chain Counts Within Record                      |
| CD        | 0            | 1                | 0             | Count Disregarding Record                       |
| CDSC      | 0            | 1 35 v           | 1             | Count Disregarding Record, Skip and Chain       |
| SCR       | 1            | 0                | 0             | Skip, Count Within Record                       |
| SCCR      | 1            | 0                | 1             | Skip, Chain Counts Within Record                |
| SCD       | 1            | 1                | 0 ,           | Skip, Count Disre-<br>garding Record            |
| SCDSC     | 1 .          | 1<br>%           | v.            | Skip, Count Disregarding Record, Skip and Chain |

## II. Explanation of File Numbers

Four versions of the BX-0 program are presently available. These programs differ only in the printer code used and in the starting location. The versions are:

| File No. | Printer Code | Starting Location |
|----------|--------------|-------------------|
| KA EXI   | 48 ECS       | 50,000            |
| KA EXIA  | 48 ECS       | 100,000           |
| KA EXIB  | 48 BCD       | 50,000            |
| KA EXIC  | 48 BCD       | 100,000           |

#### 4. PROGRAM PHILOSOPHY

BX-0 is designed for parallel maintenance. It uses control word sequences to test data paths to and from main memory and to and from the I/O units. The test is independent of CPU and requires the ability to get to and from main memory to operate.

All tests start with the simplest control words and proceed to include the chain, multiple and skip flags. The test is executed completely from BX and, therefore does not test communication paths to and from CPU or all of the control functions.

Program: BX-0

Füe: KA EXI EC Level: KA EXIA

KA EXIB

# PROGRAM SUMMARY

PROGRAMS OBSOLETED

FUNCTION To test the data paths to and from the I/O units and to and from main memory independent of CPU.

None.

BASIC CONTROLS Controlled manually from the BX console.

MANUAL INTERVENTIONS Not applicable.

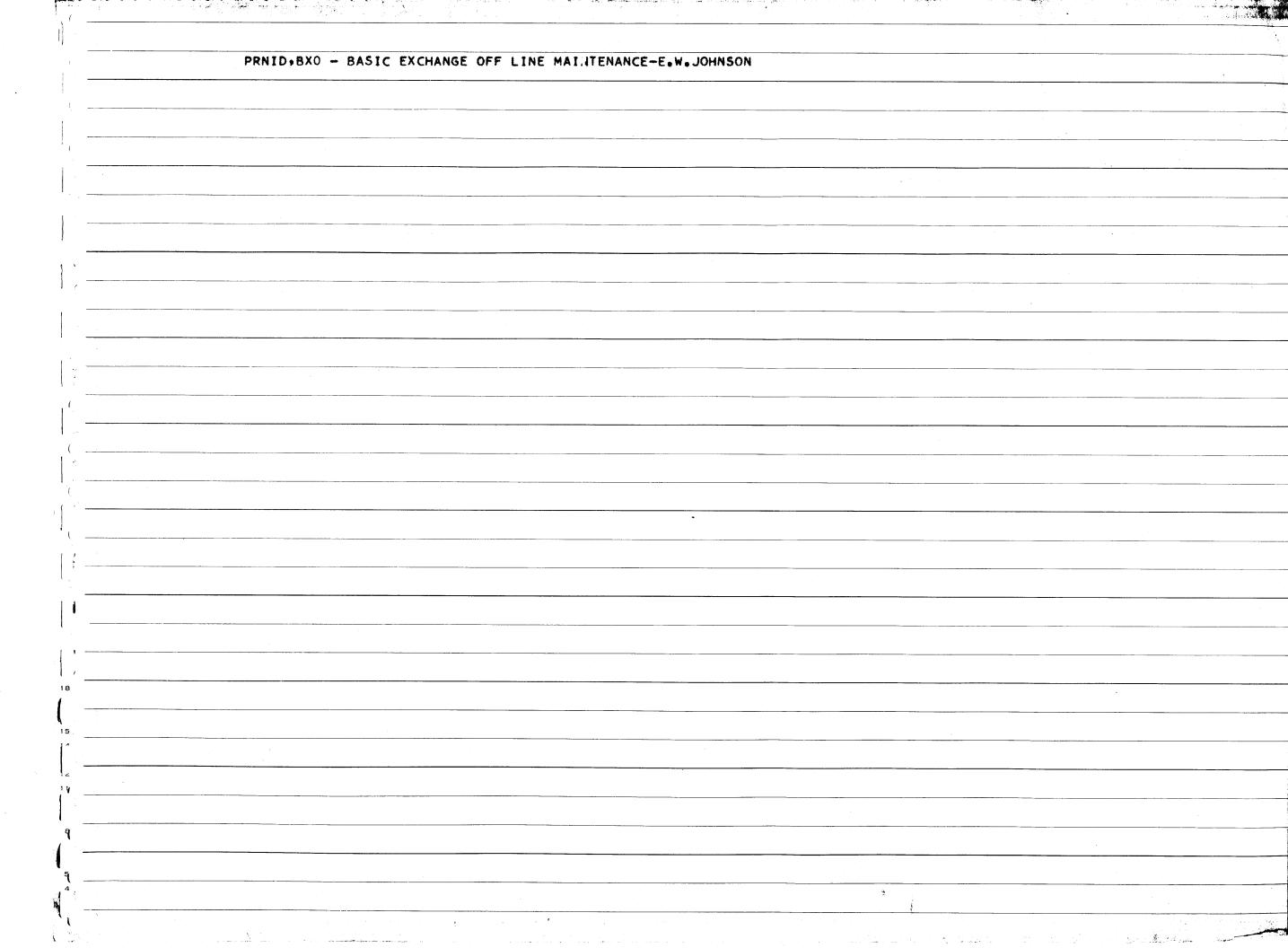
SUCCESS INDICATIONS Correct data in memory, and correct printouts.

FAILURE INDICATIONS Failure printouts and incorrect data in main memory.

PROGRAM OPTIONS

FIGURE 1

|          | SLC,64.0      |                                       | 000100+00 |
|----------|---------------|---------------------------------------|-----------|
|          | PUNID+KA EX1C | KA EX1C                               |           |
|          | END + 64 + 0  | 100.00                                | 000100.00 |
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|   |          | PRNS<br>PUNFUL   |              | ·         |          |  |  |             |
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|   |          | SEM.6  |              |           |          |  |  | 3.1.7.7.000 |
|   |          |  |              |           |          |  |  |             |
|   | @        | CM&CDEL*   | START.       | . END.    | _CTÁ     | RT61.40 @IPL CONTROL WORD  | 100000.00 20 070740.00 00  | 077777.00   |
| -                                       | @        |  |              |           |          | USED TO READ IN PROGRAM  | 100000000 20 070740000 00  | 077777800   |
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|   | •        |  |              |           |          | S UNAVAILABLE, THE PROGRAM   |  |             |
|   | <u>e</u> | FOLLOWI  |              |           |          | READ-IN BY USING THE   |  |             |
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|   | •        | and the second s |              |           |          | LOCATION 100.0   |  |             |
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|   | <b>e</b> | CR   | 0            | 0         | 0        | COUNT WITHIN RECORD  |  |             |
|   | <u>e</u> | CCR<br>CD  | 0            | 0         | 0        | CHAIN CNTS WITHIN RECORD COUNT DISREGARDING RECORD   | · ·  |             |
|   | <u>e</u> | CDSC   | <u> </u>     | i         | _1_      | COUNT DISREGARDING RECORD  |  |             |
|   |          |  |              | _         | _        | SKIP AND CHAIN   |  |             |
|   | <u>e</u> | SCR<br>SCCR  |              | 0         | 0        | SKIP+COUNT WITHIN RECORD   |  |             |
| •                                       | (F       | SCCR   | 1            | U         | 1        | SKIP+CHAIN COUNTS WITHIN RECORD  |  |             |
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|   |          |  | WRITE        |           |          |  | 4  |             |

JU

|           | START     | NOP  | estart of test  | 0.30 00  | 100000.00  |
|-----------|-----------|--|---|--|------------|
|           | U I AN I  | NOP  | PRINTER SECTION   | 0.30 00  | 100000.40  |
|           | <b>e</b>  |  |   |  |            |
|           | •         | PRINTER TEST CONTROL WOR                           | RDS   |  |            |
|           | PRT1      | CW%CR#+LINE1+17+0                                  | @EXECUTE THIS CONTROL TO TEST @ABILITY OF PRINTER TO PRINT. | 100016.00 00 000420.00 00  | 100001.00  |
|           | •         |  | PRINTS ONE LINE OF PRINT INFO.                              | •  |            |
|           | 6         |  | ALLE MEAN ALL CHADAGED BOLLING                              | 100000 00 000000 00 00   |            |
|           | PRT2      | CW%CD=+LINE2+51+0                                  | eno end code- 3 lines of print.                             | 100037.00 20 001460.00 00  | 100002.00  |
|           | •         |  |   | ·  |            |
|           | PRT3      | CW%CDII+LINE3+31+0                                 | MF TEST, END CODE TEST-                                     | 100122.00 20 000760.00 00  | 100003.00  |
|           |           |  | ePRINTS 3 LINES OF PRINT, EACH eldentified.                 |  |            |
|           | 6         |  |   |  |            |
|           | PRT4      | CW%CR#+BXWC1+1+0                                   | eBX WORD COUNT -1- TEST                                     | 100161.00 00 000020.00 00  | 100004.00  |
|           |           |  | @USES PRINTER TO INDICATE @SUCCESS.PRINTS WDCT1 ON SUCCESS. |  |            |
|           |           |  | OWDCT1 FAILURE-ON FAILURE                                   |  |            |
|           | •         |  |   |  |            |
|           | PRT4A     | CW%CRD+BXWC2+2+0                                   | ebx word count -2- test.  Ouses Printer to Indicate         | 100163.00 00 000040.00 00  | 100005.00  |
|           |           |  | esuccess.Prints-word count 2-                               |  |            |
|           |           |  | egn success and-word count 2 efailure-on failure.           |  |            |
| W-1-1-1-1 | •         | 44-  | ALMERON LATONES   |  |            |
|           | PRT5      | CWMCDSCm.LINE1.17.561.                             | OCHAIN FLAG/MULTIPLE FLAG TEST                              | 100016.00 60 000422.00 07  | 100006.00  |
|           |           | CWSCDSCH.LINE2.51.561.                             | edo ALL ABOVE FUNCTIONS                                     | 100037.00 60 001462.00 08  | 100007.00  |
|           |           | CW%CDSC#+LINE3+31+\$61.<br>CW%CDSC#+BXWC1+1+PRT4A  | ewith CF and MF SET 1                                       | 100122.00 60 000762.00 09<br>100161.00 60 000022.00 05   | 100010.00  |
|           | •         |  |   |  |            |
|           | PRT6      | CW%CDSCn+LINE2+51+\$                               | escoping Loop-continous Print                               | 100037.00 60 001462.00 OA  | 100012.00  |
| ·         | PRT7      | CW%CDSCm+LINE3+31+5                                | escoping Loop-end code PRT                                  | 100122.00 60 000762.00 08  | 100013.00  |
|           | •         | च । <del>। एक्क क का का के 17 के जी के 18 के</del> |   | TOURS OF THE STATE | AVVVA F VV |
|           |           | SELECT REPORT PRINTER TE                           | EST   |  |            |
|           | 8         | OTHE PROGRAM LOOPS PRINT                           | TIME ACCORDING TO THE                                       |  |            |
|           | <u>.</u>  | SELECT REPORT KEY DEPRE                            |   |  |            |
|           | •         |  |   |  |            |
|           |           | IF NO KEY IS DEPRESSED TO PRINTING ALL DATA FROM T |   |  |            |
|           | •         | r registration relation series in the series of    |   |  |            |
|           | e<br>PRT8 | CW%CDSC#+CCFC+32+\$                                | CLOOP FOR CARRIAGE  | 100207.00 60 001002.00 OC  | 100014.00  |
|           |           |  | econtrol FIELD TESTS.                                       |  |            |
|           | <u>e</u>  |  |   |  |            |
|           | ě         | SUPPRESS POST-SPACING PR                           | INTER TEST  | · *  |            |
|           | PRT9      | CW&CDSCm.SPS1.17.5                                 | - QLOOP FOR SUPPRESS  | 100166.00 60 000422.00 00  | 100015.00  |

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Section 1

epost spacing tests END OF PRINTER TESTS 2

|             | PRINT DATA  |             |           |
|-------------|---|-------------|-----------|
| 6           | CNOP  |             |           |
| LINEI       | %8DD%BU+8+8D+000 @CHAR CONTROL BYTE                       | 000         | 100016.00 |
|             | * AZDDNBU.8.80, THIS LINE OF PRINT CHECKS THE ABILITY TOZ |             | 100016.10 |
|             | % AZDDNBU.8.80 PRINT. ABCDEFGHIJKLMNOPQRSTUVWXZ           |             | 100023.10 |
|             | % AADDWBU.8.8m.YZ1234567890A                              |             | 100027.10 |
|             | %AZmDD%8U,8,8m,%m#@6\$#/,Z                                | ·           | 100030.50 |
|             | %16mDD%8U.8.8m.1A   | 032         | 100032.00 |
|             | % AZDD%BU,8,80, ONLY ONE LINE SHOULD PRINT Z              |             | 100032.10 |
|             | % AZDD%8U.8.8D.PRT1 Z                                     |             | 100036.10 |
| _           | CNOP  |             |           |
| •           |   |             |           |
| LINE2       | #8mDD#BU.8.8m.000 @CHAR CONTROL BYTE-LINE 1               | 000         | 100037.00 |
|             | % AZIDD%BU.8.8I. ABCDEFGHIJKLMNOPQRSTUVZ                  |             | 100037.10 |
|             | % ATDDSBU.8.80.WXYZ0123456789 ABCDEFGHIJKLMNOPQT          |             | 100042.00 |
|             | % AQDDD%BU.8.8D.RSTUVWXYZ0123456789 ALL CHARACTEQ         | -           | 100046.00 |
|             | % AZDD%BU+8+8m+R PRINT Z                                  |             | 100052.00 |
|             | %AZmDD%BU,8,8m,%m#@65*/,Z                                 |             | 100053.00 |
|             | %16mDD%8U+8+8m+1A   | 032         | 100054.30 |
|             | % AZDDD%BU+8+8D+ THREE LINESZ                             |             | 100054.40 |
|             | % AZDDD%BU+8+8D+ FIRST LINE Z                             |             | 100056.00 |
| •           | WAMBBELL & AM ARA   | <u>-</u>    |           |
|             | *8nDD*BU+8+8n+000 CHAR CONTROL BYTE-LINE 2                | 000         | 100060-00 |
|             | * AZDD%BU+8+8H+ ABCDEFGHIJKLMNOPQRSTUVZ                   |             | 100060.10 |
|             | % ATHDD%BU.8.8m.WXYZ0123456789 ABCDEFGHIJKLMNOPQT         |             | 100063.00 |
|             | % AQTDD%BU.8.8m.RSTUVWXYZ0123456789 ALL CHARACTEQ         |             | 100067.00 |
|             | % AZmDD%BU+8+8m+R PRINT Z                                 |             | 100073.00 |
|             | %AZmDD%BU,8,8m,-%m#@6\$#/,Z                               |             | 100074.00 |
| <del></del> | %16mDD%BU+8+8m+1A   | 032         | 100075.30 |
|             | * AZDDNBU+8+8H+ THREE LINESZ                              | •           | 100075.40 |
|             | % AZEDD%BU.8.8m. SECOND LINE Z                            |             | 100077.00 |
| •           | %8#DD%BU+8+8#+000 #CHAR CONTROL BYTE-LINE 3               | 000         | 100101.00 |
|             | % AZDD%BU.8.80. ABCDEFGHIJKLMNOPQRSTUVZ                   |             | 100101.10 |
| <u> </u>    | * ATHDDWBU.8.8H.WXYZ0123456789 ABCDEFGHIJKLMNOPQT         |             | 100104.00 |
|             | % AQUDD%BU.8.8m.RSTUVWXYZ0123456789 ALL CHARACTEQ         |             | 100110.00 |
|             | * AZDD%BU,8,8m,R PRINT Z                                  |             | 100114.00 |
|             | %AZmDD%BU,8,8m,%m#@6\$#/,Z                                |             | 100115.00 |
|             | %16nDD%8U.8,8n.1A   | 032         | 100116.30 |
|             | % AZDD%BU+8+8D+ THREE LINESZ                              |             | 100116.40 |
|             | % AZmDO%8U+8+8m+ THIRD LINE Z                             |             | 100120.00 |
| <b>e</b>    |   |             | ,         |
| LINE3       | %8mDD%BU+8+8m+000   | 000         | 100122.00 |
|             | % AZDDDNBU.8.8m.MULTIPLE FLAG EQUAL 1 TEST WITH Z         |             | 100122.10 |
|             | % AZBDD%BU-8-8B-END CODE. THIS IS THE FIRST LINEZ         |             | 100126.10 |
|             | %8mDO%BU.8.8m.376   | 376         | 100132.70 |
|             | %8mDD%8U+8+8m+000 CHAR CONTROL BYTE-2ND LINE              | 000         | 100133.00 |
|             | % AZDDWBU.8.83.THIS IS THE SECOND LINE OF MF/END CODE TZ  |             | 100133.10 |
|             | % AZDDWBU.8.80.EST. 376 IS USED FOR END CODEZ             |             | 100140.10 |
|             | %8mDD%BU.8.8m.376.000                                     | 376         | 100144.00 |
|             |   | 000         | 100144.10 |
|             | % AZDDD%BU.8.8D.FAILZ                                     |             | 100144.20 |
|             | CNOP  |             |           |
|             | %8mDD%BU,8,8m,000 CHAR CONTROL BYTE-3RD LINE              | 000         | 100145.00 |
|             | % AZDDD%BU.8.8m.THIS IS THE THIRD AND LAST LINE OF END CZ |             | 100145.10 |
|             | % AZDDD%BU.8.8D.ODE/MF TEST-PRT3-WD CNT O STOPS PRINTZ    | , <u>\$</u> | 100152.10 |
|             | % AZDDD%BU,8,8m, ON THIS LINEZ                            |             | 100156.60 |

| 1                                      | BXWC1     | %8mDD%BU+8+8m+000   | 000                                     | 100161.00              |
|--|-----------|---|---|------------------------|
|  | DANCI     | % AZDDD%BU.8.8m.WDCT1 Z   |   | 100161.10              |
|  |           | % AZDDD%BU+8+8D+FATLUREZ  |   | 100162.00              |
|  | •         |   |   |                        |
| ·                                      |           | CNOP  |   |                        |
|  | BXWC2     | %8¤DD%8U+8+8¤+000   | 000                                     | 100163.00              |
|  | DANCZ     | % AZEDD%BU+8+8E+WORD COUNT -2- Z  |   | 100163.10              |
|  |           | % AZEDD%BU.8.8D.FAILURE Z   |   | 100165.00              |
|  | . 6       |   |   |                        |
|  |           | SUPPRESS POST SPACING TEST DATA   |   |                        |
| {                                      | •         |   |   |                        |
|  | SPS1      | %8mDD%BU+8+8m+360+000   | 360                                     | 100166.00<br>100166.10 |
|  |           | A. A. T   | 000                                     | 100166.20              |
|  |           | % AZDD%BU+8+8n+NOW Z  | 376                                     | 100166.70              |
| 1 .                                    | SPS2      | %8¤DD%BU+8+8¤+376<br>%8¤DD%BU+8+8¤+360+000+000+000+000  | 360                                     | 100167.00              |
|  |           | 75000 760 16 6 1 4 360 1000 1 | 000                                     | 100167.10              |
| 1                                      |           |   | 000                                     | 100167.20              |
| 1 1                                    |           |   | 000                                     | 100167-30              |
| . · · . <u> </u>                       |           |   | 000                                     | 100167.40              |
| 1                                      |           |   | 000                                     | 100167.50              |
|  |           | % AZmDD%BU+8+8m+15 A SUPPZ  | 376                                     | 100167.60<br>100170.70 |
|  | <b></b>   | %8mDD%BU+8+8m+376   | 360                                     | 100171.00              |
| '                                      | SPS3      | %8mDD%BU+8+8m+360+000+000+000+000+000   | 000                                     | 100171.10              |
|  |           |   | 000                                     | 100171.20              |
| · / · · ·                              |           |   | 000                                     | 100171.30              |
|  |           |   | 000                                     | 100171.40              |
|  |           |   | 000                                     | 100171.50              |
| . (                                    |           |   | 000                                     | 100171.60              |
|  |           | DD%BU,64,81,0   | 0000000000000000000000                  | 100171.70              |
| · -                                    |           | % AZIDD%BU+8+8II+RESS POZ   | 474                                     | 100172.70<br>100173.60 |
|  |           | %8nDD%BU,8,8n,376,000   | <b>976</b><br>000                       | 100173.70              |
| · (                                    | SPS4      | %8mDD%BU,8,8m,360,000,000,000,000   | 360                                     | 100174.00              |
| 1                                      | 3734      | #9HDD#DO4949H479O04000400040004000  | 000                                     |                        |
| \                                      |           |   | 000                                     | 100174.20              |
|  |           |   | 000                                     | 100174.30              |
| 1 .                                    |           |   | 000                                     | 100174.40              |
| ·                                      |           |   | 000                                     | 100174.50<br>100174.60 |
|  |           | DD%BU,64,8m,0   | 00000000000000000000000000000000000000  | 100175.60              |
| ·                                      |           | DD%BU,64,8m,0<br>% AZDDD%BU,8,8m,ST SPACING T Z   | 000000000000000000000000000000000000000 | 100176.60              |
|  |           | % AZUDD%8U+8+8U+5: SPACING : Z<br>%8UDD%8U+8+8U+376+000+000+000   | 376                                     | 100200.40              |
| 1                                      |           | NA  | 000                                     | 100200.50              |
|  |           |   | 000                                     | 100200.60              |
| 18                                     |           |   | 000                                     | 100200.70              |
|  | SP\$5     | %8mDD%BU,8,8m,000   | 000                                     | 100201.00              |
|  |           | DD%BU,64,8m,0   | 000000000000000000000000000000000000000 | 100201.10              |
| 15                                     |           | DD%BU, 64, 8m, 0  | 000000000000000000000000000000000000000 | 100202.10<br>100203.10 |
| 14                                     |           | DD%BU,64,80,0   | 000000000000000000000000000000000000000 | 100204.10              |
|  |           | DD%BU.64.80.0<br>% AZDD%BU.8.80.EST LOOPZ   | 000000000000000000000000000000000000000 | 100205.10              |
| 1 <b>V</b>                             |           | %8mDD%BU;8;8m;376   | 376                                     |                        |
| 1                                      |           | CNOP  | 0.30 00                                 | 100206+40              |
|  | <b>(b</b> | CHOI  |   |                        |
| ٩                                      | •         | SELECT REPORT TEST DATA   |   |                        |
|  | CCFC      | %8mDD%8U,8,8m,341,000   | 341                                     | 100207.00              |
| 1                                      | CCFC      | NUMBUNUV FOR FATE FY T T  | 000                                     | 100207-10              |
| <b>'</b> 9                             |           | A LEMBRICA A. WILLE LINE CHOILD BE BOTHTED TE CELECT ?  |   | 100207.20              |
| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |           | % AZDDD%BU,8,80,THIS LINE SHOULD BE PRINTED IF SELECT Z   |   |                        |
| ٩                                      |           | % AZDDD%BU,8,8D,THIS LINE SHOULD BE PRINTED IF SELECT Z % AZDDD%BU,8,8D,REPORT 1 IS DEPRESSEDZ  | 376                                     | 100214.00              |

| (a. 14.3.                             | recording to the control of the cont | 000      | 100217 10 |  |
|---------------------------------------|--|----------|-----------|--|
| · · · · · · · · · · · · · · · · · · · |  | 000      | 100217-10 | The second secon |
| .,' —                                 | % AZ DD NBU + 8 + 8 m + THIS LINE SHOULD BE PRINTED IF SELECT Z  |          | 100217.20 | 7.00   |
|                                       | % AZDDD%BU.8.8D.REPORT 2 IS DEPRESSED.Z  |          | 100224.00 |  |
|                                       | %8nDD%BU+8+8n+376  | 376      | 100226.70 |  |
|                                       | %8pDD%8U+8+8p+344+000  | 344      |           |  |
|                                       |  |          | 100227.10 | •  |
|                                       | % AZDD%BU.8.80,THIS LINE SHOULD BE PRINTED IF SELECT Z   |          | 100227.20 |  |
|                                       | % AZEDD%BU.8.888.REPORT 3 IS DEPRESSED.Z   |          | 100234.00 |  |
|                                       |  |          |           |  |
|                                       | %8mDD%8U•8•8m•376  |          | 100236.70 |  |
|                                       | %8mDD%8U+8+8m+350+000  |          | 100237.00 |  |
| 1                                     |  | 000      | 100237.10 |  |
|                                       | % AZIIDD%BU.8.8D.THIS LINE SHOULD BE PRINTED IF SELECT Z   |          | 100237.20 |  |
|                                       | % AZDDD%BU,8,8D,REPORT 4 IS DEPRESSEDZ   |          | 100244.00 |  |
|                                       | %8mDD%8U.8.8m.376  | 276      | 100246.70 |  |
|                                       |  | 310      | 100240810 |  |
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Er

| ####*OPERATOR####             | en e   |   |  |
|-------------------------------|--|---|--|
|                               |  |   |  |
| PLACE THE READER TEST D       | DECK IN CARD READER  |   |  |
| HOPPER AND MAKE READER R      |  |   |  |
|                               |  |   |  |
| AAAAIF IT IS DESIRED TO       | RUN FACH TEST SEPARATELY.  |   |  |
|                               |  |   |  |
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| FEATURES AND ECC TESTS        |  |   |  |
| ONE TEST DECK IS AVAILAB      | LE FOR THE READER TESTS.   |   | ,  |
|                               |  |   |  |
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| CARD READER.                  | N ALSO BE USED FOR CHECKING THE  |   |  |
|                               |  |   |  |
| CW%CDSCm, CARD1,15,\$61.0     | eFIRST CARD-IDENTIFIED   | 100313.00 60 000362.00 A8   | 100247.00  |
| CW%CDSC#+CARD2+1+\$61+0       | esecond card-word count 1 Test.  | 100332.00 60 000022.00 A9   | 100250.00  |
|                               | WSHOULD SKIP TO THIRD CARDS  |   |  |
| CW%CDSC#+CARD3+2+\$61+0       | eTHERD CARD-WORD COUNT 2 TEST.   | 100351.00 60 000042.00 44   | 100251.00  |
|                               | eSHOULD SKIP TO FOURTH CARD.   |   |  |
|                               |  |   |  |
| CW%SCCRD+CARD4+4+\$61.0       | efirst 4 words of card4 should be eskipped. With skip flag.  | 100370.00 50 000102.00 AB   | 100252.00  |
| ····                          |  |   |  |
| CW%CDSC=+CARD464.0.11.56      | 1.0 GREAD IN REMAINDER OF CARD 4.  | 100374.00 60 000262.00 AC   | 100253.00  |
| PUMPAPPM PARAM AM ANT A       | and the a capital see that   | 100/07/00/00/00/00/00/00/00/00/00/00/00/0   |  |
| CHRCDOCUSCARDOS 47 5 36 1 6 U | TREAD IN 3 CARDS-MF KEAD.  | 100407.00 60 001322.00 AD   | 100254.00  |
| CWSCDSCm.CARD8.150.561.0      | elong READ-10 CARDS.   | 100464.00 60 004542.00 AE   | 100255.00  |
| CWSCRI + CARDIS + 30 + 0      | eshould only read one card.  | 100712.00 00 000740.00 00   | 100256.00  |
|                               | WORD SEQUENCE WILL READ IF IT IS DESIRED TO THE ENTIRE CONTROL WORD CHAIN FLAGS. RUN THIS SE OPERATION IS QUESTIONABL INCLUDED, SEPARATE TO THE WHICH CHECK VARIOUS OPTI FEATURES AND ECC TESTS  ONE TEST DECK IS AVAILAB  TEST DECK ONE CONTAINS M CHECKED BY EXECUTING CHK AND PRINTING RESULTS ON WAS CHOSEN TO BE SELF EX EACH CARD IS IDENTIFIED  THE PUNCH TEST OUTPUT CA CARD READER.  CW%CDSCH, CARD2.1.\$61.0  CW%CDSCH, CARD3.2.\$61.0  CW%CDSCH, CARD4.4.561.0  CW%CDSCH, CARD4.4.561.0  CW%CDSCH, CARD5.45.\$61.0  CW%CDSCH, CARD5.45.\$61.0 | WORD SEQUENCE WILL READ IN THE ENTIRE TEST DECK.  ****IF IT IS DESIRED TO RUN EACH TEST SEPARATELY, THE ENTIRE CONTROL WORD SEQUENCE IS REPIZATED WITHOUT CHAIN FLAGS. RUN THIS SEQUENCE ONLY IF CHAIN FLAG OPERATION IS QUESTIONABLE.ADDITIONAL TESTS ARE INCLUDED, SEPARATE TO THE FIRST AND SECOND CW SEQUENCE, WHICH CHECK VARIOUS OPTIONS OF READER SUCH AS SCOPING FEATURES AND ECC TESTS | WORD SEQUENCE WILL READ IN THE ENTIRE TEST DECK. IF II IS DESIRED TO RUN EACH TEST SEPARATELY. THE ENTIRE CONTROL WORD SEQUENCE IS REPIATED WITHOUT CHAIN FLAGS. RUN THIS SEQUENCE ONLY IF CHAIN FLAG OPERATION IS QUESTIONABLE.ADDITIONAL TESTS ARE INCLUDED.SEPARATE TO THE FIRST AND SECOND CW SEQUENCE. WHICH CHECK VARIOUS OPTIONS OF READER SUCH AS SCOPING FEATURES AND ECC TESTS |

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|  | •            | THE DECLUTE OF DEADED TO                               | TET CAN EASTLY BE DETERMINED BY                      |  |             | *                                     |
|--|--------------|--|--|--|-------------|---------------------------------------|
|  | <u> </u>     | TWO MEANS.   | EST CAN EASILY BE DETERMINED BY                      |  |             |                                       |
| W-1917-1-101-10-10-10-10-10-10-10-10-10-10-10- |              |  |  |  |             |                                       |
|  | <u>e</u>     | 1. EXECUTE CHKRDR (                                    | CNT WDS AND PRINT RESULTS ON                         |  |             |                                       |
|  | ē            | 2. MANUALY FETCH R                                     | EAD IN DATATHE LAST WORD                             |  |             |                                       |
|  |              |  | S ITS OCTAL CARD NUMBER IT POSITIONS.WHERE FULL CARD |  |             |                                       |
|  |              |  | PARE WITH IQS STATEMENTS.                            |  |             |                                       |
|  | •            |  | •  |  |             |                                       |
|  | •            | THE ABOVE CONTROL WORD                                 | SEQUENCE IS NOW REPEATED                             | į.   | 4           |                                       |
|  |              | WITHOUT CHAIN FLAGS                                    |  |  |             |                                       |
|  |              |  |  |  | ·           |                                       |
|  | RDR1         | CW%CRD+CARD1+15+0                                      | @FIRST CARD  | 100313.00 00 000360.00 0                             | 0 100257.00 |                                       |
|  | RDR2         | CW%CRE+CARD2+1+0                                       | esecond card-word count 1 Test.                      | 100332.00 00 000020.00 0                             | 0 100260.00 |                                       |
| /  |              |  | @SHOULD SKIP TO THIRD CARD                           | -  |             | ,                                     |
|  | RDR3         | CW%CRD+CARD3+2+0                                       | eTHIRD CARD-WORD COUNT 2 TEST.                       | 100351.00 00 000040.00 0                             | 0 100261.00 |                                       |
| (  | RDR4         |  | eshould skip to fourth card.                         | 0.00 00 000000.00 0                                  |             |                                       |
| · · · · · · · · · · · · · · · · · · ·          | RDR5         | CW%SCRB.CARD4.4.0                                      | eskip first 4 words with skip flag.                  | 100370-00 10 000100-00 0                             | 0 100263.00 |                                       |
| (  | <u> </u>     |  |  |  |             |                                       |
| •  | RDR6<br>RDR7 | CW%CD=+CARD464+0+11+0 -CW%CD=+CARD5+45+0               | eread-in remainder of card 4.  ethree card mf read.  | 100374.00 20 000260.00 0<br>100407.00 20 001320.00 0 |             |                                       |
| ( '  |              |  |  |  |             |                                       |
|  | RDR8         | CW%CDII+CARD8+150+0                                    | @LONG READ- 10 CARDS.                                | 100464.00 20 004540.00 0                             | 0 100266.00 |                                       |
|  | - RDR9       | CWSCR#+CARD18+30+0                                     | @SHOULD ONLY READ ONE CARD.                          | 100712.00 00 000740.00 0                             | 0 100267.00 |                                       |
|  | •            |  |  |  |             |                                       |
|  | e MORE       | TESTS WILL BE ADDED AT                                 | A LATER DATE   |  |             |                                       |
| e R  |              |  |  |  |             |                                       |
|  |              |  |  |  |             |                                       |
| s, e e   | •            | THE FOLLOWING GROUP OF                                 |  |  |             |                                       |
|  |              | READ IN DATA OF READER '                               |  |  |             |                                       |
| ***************************************        | •            | ALL TESTS. FOR EXPLANATION                             | ON+REFER TO PROGRAM                                  |  |             | ,                                     |
|  |              | DESCRIPTION WRITE-UP                                   |  |  |             |                                       |
|  | e<br>CHKRDR  | CHECKER CARRIALES A                                    |  | 100213 00 60 000262 00 8                             | 9 100270.00 |                                       |
|  | CHARDA       | CW%CDSC#+CARD1+15+\$61.0<br>CW%CDSC#+CARD2+15+\$61.0   |  | 100313.00 60 000362.00 B                             |             |                                       |
|  |              | CWSCDSCH+CARD3+15+S61.0                                |  | 100351.00 60 000362.00 B                             | 8 100272.00 |                                       |
|  |              | CWSCDSCH.CARD4.15.561.0                                |  | 100\$70.00 60 000362.00 B                            |             |                                       |
|  |              | CWSCDSCH.CARD5.15.861.0                                |  | 100407.00 60.000362.00 B                             |             | · · · · · · · · · · · · · · · · · · · |
|  |              | CW%CDSC#+CARD6+15+\$61.0                               |  | 100426.00 60 000362.00 B                             |             |                                       |
|  |              | CW%CDSCU+CARD7+15+\$61+0 CW%CDSCU+CARD8+15+\$61+0      |  | 100445.00 60 000362.00 B                             |             |                                       |
|  |              | CWSCDSCB+CARD9+15+361+0                                |  | 100\$03.00 60 000362.00 C                            |             |                                       |
| e e  |              | CWSCDSCU, CARD10,15,861.0                              |  | 100522.00 60 000362.00 C                             |             |                                       |
|  |              | CW%CDSCH+CARD11+15+561.0                               | )  | 100541.00 60 000362.00 C                             | 3 100302.00 |                                       |
|  |              | CW%CDSC#+CARD12+15+\$61+0                              |  | 100560.00 60 000362.00 C                             |             |                                       |
| <u> </u>                                       |              | CW&CDSC#+CARD13+15+\$61+0<br>CW&CDSC#+CARD14+15+\$61+0 |  | 100577.00 60 000362.00 C                             |             |                                       |
|  |              | CW%CDSC#+CARD15+15+861+                                |  | 100635.00 60 000362.00 C                             |             | Land                                  |
| •  |              |  | · · · · · · · · · · · · · · · · · · ·                |  |             |                                       |

|   |          | CW%CDSCH+CARD16+15+\$61.0<br>CW%CDSCH+CARD17+15+\$61.0<br>CW%CDSCH+CARD18+15+\$61.0<br>CW%CDH+CARD19+15+0 | 100654.00 60 000362.00 C8<br>100673.00 60 000362.00 C9<br>100712.00 60 000362.00 CA<br>100731.00 20 000360.00 00 | 100307.00<br>100310.00<br>100311.00<br>100312.00 | UU |
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|---------------|------------|---------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
|               | 6          |                                 |                                       |                                       |                                       | 1811                                  |
|               |            | READ IN AREA FOR RDI            | R AND ROR1-ROR9 TESTS                 | · · · · · · · · · · · · · · · · · · · |                                       |                                       |
| 1             |            |                                 | · ·                                   | ·                                     |                                       |                                       |
| 1             |            | CNOP                            |                                       |                                       |                                       |                                       |
| 1             | CARD1      | DR%BU,64,88,14                  |                                       | 16.00                                 | 100313.00                             |                                       |
|               | CARDI      | DR%BU • 64 • 80 • 1             | @CARD 1 IDENTITY                      | 1.00                                  | 100313.00                             | 14                                    |
|               |            |                                 |                                       |                                       |                                       |                                       |
|               | CARD2      | DR%BU+64+80+1<br>DR%BU+64+80+14 | WORD COUNT 1 DATA                     | 1.00                                  | 100332.00                             |                                       |
|               |            | DK#DU96498H914                  | THIS AREA SHOULD BE BLANK             | 16.00                                 | 100333.00                             |                                       |
| I ,           | CARD3      | DR%8U+64+8m+2                   | @WORD COUNT 2 DATA                    | 2.00                                  | 100351.00                             |                                       |
|               |            | DR%BU.64.8m.13                  | ethis area should be blank            | 15.00                                 | 100353.00                             | · · · · · · · · · · · · · · · · · · · |
|               | €<br>CARD4 | W ATHRESILS S. C. T.            | HIS IS THE SKIP READ AREAZ            |                                       | 100370.00                             |                                       |
|               | CARU4      | DR%BU,64,8m,10                  | CARD 4 DATA                           | 12.00                                 | 100370.00                             |                                       |
|               |            | DR%BU+64+8m+1                   | CARD 4 IDENTITY                       | 1.00                                  | 100406.00                             |                                       |
|               |            |                                 |                                       | • • • •                               | · · · · · · · · · · · · · · · · · · · |                                       |
|               | CARD5      | DR%BU+64+8m+14<br>DR%BU+64+8m+1 | @CARD 5 DATA @CARD 5 IDENTITY         | 16.00<br>1.00                         | 100407.00<br>100425.00                |                                       |
|               |            |                                 | SCARD 3 IDENTITY                      | 1,00                                  | 100425.00                             |                                       |
|               | CARD6      | DR%BU,64,85,14                  | @CARD 6 DATA                          | 16.00                                 | 100426.00                             |                                       |
|               |            | DR%BU+64+8m+1                   | @CARD 6 IDENTITY                      | 1.00                                  | 100444.00                             |                                       |
|               | CARD7      | DR%BU.64.8m.14                  | CARD 7 DATA                           | 16.00                                 | 100445.00                             |                                       |
|               |            | DR%BU,64,8m,1                   | CARD 7 IDENTITY                       | 1.00                                  | 100463.00                             |                                       |
|               | <u> </u>   |                                 |                                       |                                       |                                       |                                       |
|               | CARD8      | DR%BU,64,8m,14                  | ecard 8 data ecard 8 identity %octals | 16.00                                 | 100464.00<br>100502.00                |                                       |
| (             | <b>@</b>   | (/Rabuto410011                  | ACAKO O TOERITTI BOCIACI              | 1.00                                  | 100302.00                             |                                       |
|               | CARD9      | DR%8U,64,8m,14                  | CARD 9 DATA                           | 16.00                                 | 100503.00                             |                                       |
| )<br>         | _          | DR%BU+64+8m+1                   | eCARD 9 IDENTITY %OCTALs              | 1.00                                  | 100521.00                             |                                       |
|               | CARD10     | DR%BU+64+811+14                 |                                       | 16.00                                 | 100522.00                             |                                       |
|               | CAMPIO     | DR%BU+64+8#+1                   | eCARD 10 IDENTITY SOCTALE             | 1.00                                  | 100540.00                             |                                       |
| V.            |            |                                 |                                       |                                       |                                       |                                       |
|               | CARD11     | DR%8U+64+8m+14<br>DR%8U+64+8m+1 | @CARD 11 IDENTITY %OCTAL              | 16.00<br>1.00                         | 100541.00<br>100557.00                |                                       |
|               |            | DK#BO\$6#\$6H\$1                | SCARD II IDENIIII BOCIALU             | 1.00                                  | 100997400                             |                                       |
|               | CARD12     | DR%BU,64,8m,14                  |                                       | 16.00                                 | 100560.00                             |                                       |
|               |            | DR%BU+64+8¤+1                   | @CARD 12 IDENTITY %OCTAL              | 1.00                                  | 100576.00                             |                                       |
|               | CARDIA     | DR%8U+64+8m+14                  |                                       | 16.00                                 | 100577.00                             |                                       |
| 8             | CARDIS     | DR%8U,64,8m,1                   | @CARD 13 IDENTITY                     | 1.00                                  | 100615.00                             |                                       |
|               |            | power to the same to            |                                       | 16.00                                 | 100414 00                             |                                       |
| 5             | CARD14     | DR%BU,64,8m,14                  | @CARD 14 IDENTITY                     | 16.00                                 | 100616.00<br>100634.00                |                                       |
| A             | •          |                                 | MACHINE A MALTIA I I                  |                                       |                                       |                                       |
| · ·           | CARD15     | DR%BU.64.8m.14                  |                                       | 16.00                                 | 100635.00                             |                                       |
| <b>~</b><br>∤ | æ          | DR%BU+64+8¤+1                   | @CARD 15 IDENTITY                     | 1.00                                  | 100653.00                             |                                       |
|               | CARD16     | DR%BU,64,8m,14                  |                                       | 16.00                                 | 100654.00                             |                                       |
|               |            | DR%BU,64,85,1                   | @CARD 16 IDENTITY                     | 1.00                                  | 100672.00                             |                                       |
| <b>9</b>      | CARDIT     | DR%BU.64.8m.14                  |                                       | 16.00                                 | 100673.00                             |                                       |
| -             |            | DR%BU,64,80,1                   | eCARD 17 IDENTITY                     | 1.00                                  | 100711.00                             |                                       |
| <b>5</b>      |            |                                 |                                       | į į                                   |                                       |                                       |
| 4 ,           | CARD18     | DR%BU,64,8m,14                  | ACADO 18 INCHETTY                     | 16.00                                 | 100712.00                             | :                                     |
|               | <u> </u>   | DR%BU,64,8m,1                   | @CARD 18 IDENTITY                     | 1.00                                  | 100730.00                             | Aller of the second                   |
| Take 1        | CARD19     | DR\$8U+64+8m+15                 | CARD 19 SHOULD NOT HAVE READ          | 17.00                                 | 100731.00                             | Ef                                    |

|                   | 729-IV- TAPE TESTS                                |                                     |
|-------------------|---|-------------------------------------|
|                   | BOTH DATA AND TAPE CONTROL ARE CHECKED IN THESE   |                                     |
| (;<br><b>(a</b> ) | TESTS. INSTRUCTIONS ARE INCLUDED WITHIN THE TESTS |                                     |
|                   | INDICATING THE TYPE OF CONTROL INSTRUCTION        |                                     |
| <b>a</b>          | NEEDED. ITS CODE FOR MANUAL EXECUTION. AND THE    |                                     |
| 8                 | TIME OF WHICH IT SHOULD BE EXECUTED. EACH         |                                     |
| •                 | STEP OF A PARTICULAR TEST IS NUMBERED BY ORDER    |                                     |
| <b>A</b>          | OF EXECUTION.                                     |                                     |
|                   | OF EXECUTIONS                                     |                                     |
| (2)               |   |                                     |
|                   | TEST 1 SIMPLE DATA AND REWIND.                    |                                     |
| (8)               | MANUALLY LOCATE DRIVE.                            |                                     |
|                   | 1REWIND TAPE. CONTROL CODE 01011110               | · ·                                 |
|                   | 2EXECUTE FOLLOWING CONTROL WORD-WRITE             |                                     |
| <u>e</u>          |   |                                     |
| ***               | CW%CR#+RCRDA+12+0                                 | 101004.00 00 000300.00 00 100750.00 |
|                   |   |                                     |
| @                 | 3REWIND TAPE. CONTROL CODE 01011110               |                                     |
|                   | 4EXECUTE FOLLOWING CONTROL WORD-READ              |                                     |
| @                 |   |                                     |
|                   | CW%CRI • TPRD1 • 12 • 0                           | 101140.00 00 000300.00 00 100751.00 |
| @                 |   |                                     |
|                   | TO CHECK DATA: CHECK READ IN AREA MANUALLY.       |                                     |
| @                 | DATA IS IN A SIMPLE FORM. AN ALL ONES BYTE        |                                     |
|                   | SHIFTS CONTINUALY TO THE LEFT ONE FULL BYTE       |                                     |
| ė                 | FOR EACH WORD READ UNTILL AN ALL ZEROS WORD       |                                     |
|                   | IS REACHED. FOLLOWING THIS IS AN ALL ONES         |                                     |
| <b>@</b>          | WORDS, A 10101WORD, AND A 01010WORD.              |                                     |
| <u> </u>          |   |                                     |
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| <u> </u> | TEST 2 DATA AND BACKSPACE TEST                        |                                       |           |
|----------|---|---------------------------------------|-----------|
| •        | TEST CHECKED BY PRINTING RESULTS                      |                                       |           |
|          | ON CHAIN PRINTER.                                     |                                       |           |
|          | ON CHAIN PRINIER                                      |                                       |           |
|          | 1LOCATE DESIRED DRIVE.                                |                                       |           |
|          | 2REWIND TAPE. CONTROL CODE 01011110                   |                                       |           |
| ē        | 3EXECUTE FOLLOWING GROUP OF CONTROL WORDS-WRITE       |                                       |           |
|          |   |                                       |           |
|          | CW%CDSCU+RCRD1+10+\$61.0                              | 101020.00 60 000242.01 EB             | 100752.00 |
|          | CW%CDSCm+RCRD2+15+\$61.0                              | 101032.00 60 000362.01 EC             | 100753.00 |
| •        | CW%CR¤+RCRD3+5+0                                      | 101051.00 00 000120.00 00             | 100754.00 |
| 6        | 4BACKSPACE TAPE. CONTROL CODE 01111110                |                                       |           |
|          | 5EXECUTE FOLLOWING CONTROL WORD-WRITE                 |                                       |           |
| • •      |   |                                       |           |
|          | CW%CDSCI+RCRD4+5+S&1.0                                | 101056.00 60 000122.01 EE             | 100755.00 |
|          | CW%CRD,RCRD5,10,0                                     | 101063.00 00 000240.00 00             | 100756.00 |
|          | 6REWIND TAPE. CONTROL CODE 01011110                   |                                       |           |
|          | 7EXECUTE FOLLOWING CONTROL WORDS-READ.                |                                       |           |
|          |   |                                       |           |
|          | CW%CDSC=+TPRD2+10+\$&1+0                              | 101154.00 60 000242.01 FO             | 100757+00 |
|          | CW%CDSCm+TPRD3+15+\$61.0                              | 101166.00 60 000362.01 F1             | 100760.00 |
|          | CW%CDSCu+TPRD4+5+861.0                                | 101205.00 60 000122.01 F2             | 100761.00 |
|          | CW%CR=,TPRD5,10,\$61,0                                | 101212.00 00 000242.01 F3             | 100762.00 |
| è        | 8TO CHECK TESTS. USE ABOVE SET OF CONTROL WORDS AGAIN |                                       |           |
| •        | ONLY THIS TIME. PRINT READ IN AREA O. PRINTER.        |                                       |           |
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| _        | TEST 3. TAPE MARK RECOGNITION TEST.                          |                           |           |
|----------|--|---------------------------|-----------|
|          | 1LOCATE DESIRED DRIVE.                                       | ·                         | ****      |
|          | 2REWIND TAPE. CONTROL CODE 01011110                          |                           |           |
| <b>e</b> | 3EXECUTE FOLLOWING CONTROL WORD-WRITE                        |                           |           |
|          | CW%CD=+RCRD10+5+\$&1.0 @SHOULD NOT CHAIN.                    | 101075.00 20 000122.01 F4 | 100763.00 |
|          | CW%CRH+RCRD10+5+0  | 101075.00 00 000120.00 00 | 100764.00 |
| 6        |  |                           |           |
|          | 4WRITE A TAPE MARK. CONTROL CODE 01001111                    |                           |           |
| <i>e</i> | 5EXECUTE FOLLOWING CONTROL WORD-WRITE.                       |                           |           |
| •        | CW%CR¤+RCRD11+5+0  | 101102.00 00 000120.00 00 | 100765.00 |
|          | 6REWIND TAPE. CONTROL CODE 01011110                          |                           |           |
|          | 7EXECUTE FOLLOWING CONTROL WORD-ONLY ONE RECORD              |                           |           |
| @<br>    | -SHOULD READ. TAPE MARK SHOULD CAUSE DISCONNET AT 6TH -WORD. |                           |           |
| •        | CW%CD#+TPRD6+15+0  | 101224.00 20 000360.00 00 | 100766.00 |
|          | CHRCOM \$   PROD\$ 2.7 \$ U                                  | 101224400 20 000380400 00 | 100/00-00 |
|          | 8EXECUTE ABOVE CW WITH PRINTER WRITE TO OBSERVE RESULTS.     |                           |           |
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|                  | e TEST 4BACKSPACE FILE TEST.   |                                 |       |
|                  | e 1LOCATE DESIRED DRIVE.   |                                 |       |
|                  | 2.—REWIND TAPE. CONTROL CODE 01011110  9 3.—EXECUTE FOLLOWING CONTROL WORD-WRITE |                                 |       |
| 1                | CW%CD=,RCRD12,5,0  | 101107.00 20 000120.00 00 10076 | 57.00 |
|                  | # 4WRITE A TAPE MARK. CONTROL CODE 01001111 # 5EXECUTE FOLLOWING CW - WRITE      |                                 |       |
|                  | CW%CD=+RCRD13+5+0  | 101114.00 20 000120.00 00 10077 | 70.00 |
|                  | 6BACKSPACE FILE. CONTROL CODE 01111111 7EXECUTE FOLLOWING CW-WRITE               |                                 |       |
|                  | CW%CD=,RCRD14,5,0  | 101121.00 20 000120.00 00 10077 | /1.00 |
| <u>.</u>         | 8REWIND TAPE. CONTROL CODE 01011110 9EXECUTE FOLLOWING CONTROL WORDS-READ.       |                                 |       |
|                  | CW%CD=+TPRD7+10+0  | 101243.00 20 000240.00 00 10077 | 2.00  |
|                  | e 10EXECUTE FOLLOWING CW ON-PRINTERPRINT.  |                                 |       |
|                  | CW%CD¤,TPRD7,10,0  | 101243.00 20 000240.00 00 10077 | /3.00 |
|                  | •  |                                 |       |
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| •   | TEST 5 SPACE FILE TEST  |  |                        |
|---|---|--|------------------------|
| 6   | 1LOCATE DESIRED DRIVE.  |  |                        |
| e   | 2REWIND TAPE. CONTROL CODE 01011110 3EXECUTE FOLLOWING CONTROL WORD-WRITE     |  |                        |
|   | 3. EXECUTE FOLLOWING CONTROL WORD-WRITE                                       |  |                        |
| •   | CW%CD#+RCRD15+5+0   | 101126.00 20 000120.00 00                              | 100774.00              |
| e<br>e  | 4WRITE A TAPE MARK. CONTROL CODE 01001111 5REWIND TAPE. CONTROL CODE 01011110 |  |                        |
| e<br>   | 6SPACE FILE. CONTROL CODE 00111111 7EXECUTE FOLLOWING CW WRITE.               |  |                        |
| •   | CWSCDU+RCRD16+5+0   | 101133.00 20 000120.00 00                              | 100775.00              |
|   | 8REWIND TAPE. CONTROL CODE 01011110 9EXECUTE FOLLOWING CWS-READ.              |  |                        |
|   | CW%CDSCm+TPRD8+5+\$61+0 CW%CDm+TPRD865+0+1+0 @SKIP TAPE MARK                  | 101262.00 60 000122.01 FF<br>101267.00 20 000020.00 00 | 100776.00<br>100777.00 |
| <i>e</i><br>• • • • • • • • • • • • • • • • • • • | 9AEXECUTE FOLLOWING CW-READ   |  |                        |
|   | CW%CDU,TPRD865.0.5.0  | 101267.00 20 000120.00 00                              | 101000.00              |
|   | 10EXECUTE FOLLOWING CW ON PRINTERWRITE-                                       |  |                        |
| •   | CW%CR#+TPRD8&5+0+5+0  | 101267.00 00 000120.00 00                              | 101001.00              |
| e<br>   |   |  | •                      |
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|        | e           | THE FOLLOWING GROUP OF CONTROL WORDS REPRODUCE THIS PROGRAM USING TAPES AS A STORAGE DEVICE.      |                           |                                       |
|        |             |   |                           |                                       |
|        | e           | 1LOCATE DESIRED DRIVE   |                           |                                       |
|        | <b>e</b>    | 2REWIND TAPE. CONTROL CODE 01011110   |                           |                                       |
|        |             | 3EXECUTE FOLLOWING CONTROL WORDS-WRITE  |                           |                                       |
| 1      |             | CW%CCR#.IPLCW.1.5&1.0   | 101003.00 40 000022.02 03 | 101002.00                             |
| - (    | IPLCW       |   | 100000.00 20 070740.00 00 | 101003.00                             |
|        | •           | 4REWIND TAPE. CONTROL CODE 01011110   |                           |                                       |
|        | •           | TAPE CAN BE USED AS A PROGRAM TAPE.   |                           |                                       |
| 1      | •           | IPL FROM THIS TAPE WILL PRODUCE SAME DATA AS IF BX-0-WERE LOADED FROM CARDS. TO TRUELY TEST TAPE. |                           |                                       |
|        | •           | CLEAR MEMORY AND IPL. RUN PRINTER TEST FOR A DATA TEST.   |                           |                                       |
| -      |             | ****TO CREATE A NEW BINARY DECK. USE ABOVE  |                           |                                       |
| 1      |             | CONTROL WORDS ON A PUNCH WRITE. **** CNOP   |                           |                                       |
|        |             |   |                           | ·                                     |
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| 1,   | A TARE TESTS DATA                                     |  |
|--|---|--|
|  | e TAPE TESTS DATA                                     |  |
| · .  | e TEST 1.   |  |
| * *  | @ RCRDA %8mDD%8U.8.8m.000.000.000.000.000.000.000.377 |  |
| AND ADDRESS OF THE STATE OF THE | RCRDA %8mDD%BU,8,8m,000,000,000,000,000,000,000,377   | 000 101004.00 ;<br>000 101004.10   |
|  |   | 000 101004.20  |
| ,  |   | 000 101004.30  |
| :  |   | 000 101004.40  |
|  |   | 000 101004.50  |
|  |   | 000 101004.60  |
|  | %8nDD%BU.8.8n.000.000.000.000.000.377.000             | 377 101004.70  |
|  | \$8H00\$80\$8\$\$U\$000\$000\$000\$000\$\$77\$000     | 000 101005.00<br>000 101005.10   |
|  |   | 000 101005.20  |
|  |   | 000 101005.30  |
|  |   | 000 101005.40  |
|  |   | 000 101005.50  |
| :<br>!   |   | 377 101005.60  |
|  | %8#DD%BU.8,8#.000.000.000.000.377.000.000             | 000 101005•70<br>000 101006•00   |
|  | #6#00#6#\$6#\$000\$600\$600\$600\$                    | 000 101006.10  |
| ;<br>  |   | 000 101006.20  |
| 16.  |   | 000 101006.30  |
|  |   | 000 101006.40  |
| 1.0  |   | 377 101006.50  |
|  |   | 000 101006.60  |
|  | %8mDD%8U.8.8m.000.000.000.377.000.00.000              | 000 101006.70<br>000 101007.00   |
| ·  |   | 000 101007.00  |
|  |   | 000 101007.20  |
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| ·  |   | 377 101007•40  |
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| ·  |   | 000 101007.60<br>000 101007.70   |
|  | %8¤DD%BU,8,8¤,000,000,000,377,000,000,000,000         | 000 101010.00  |
| (  |   | 000 101010.10  |
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| 18   |   | 000 101010.60<br>000 101010.70   |
|  | \$8#DD\$8U+8+8#+000+000+377+000+000+000+000           | 000 101011.00  |
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| · <b>(</b>   |   | 377 101012.10  |
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|  | %8mDD%BU,8,8m,377,000,000,000,000,000,000             | 277 101012 80  |
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| 6° v. (2                                |                 | Personal Control Contr | 000  | 101013-10              |  |
|---|-----------------|--|--|------------------------|--|
| ; (                                     |                 |  | 000  |                        |  |
|   |                 |  | 000  | 101013.30              |  |
| ·                                       |                 |  | 000  | 101013.40              | · · · · · · · · · · · · · · · · · · ·  |
|   |                 |  | 000  | 101013.50              |  |
|   |                 |  | 000  | 101013.60<br>101013.70 |  |
|   |                 | \$8HDD\$BU+8+8H+000+000+000+000+000+000+000  | 000  |                        |  |
|   |                 |  | 000  | 101014.10              |  |
|   |                 |  | 000  | 101014-20              |  |
| 1                                       |                 |  | 000  | 101014.30              |  |
|   |                 | ·  | • 000  | 101014-40              |  |
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| ·                                       |                 |  | 000  |                        |  |
| ſ                                       |                 | NO_DNNNII O O Ann ann ann ann ann ann  | 000  | 101014.70              |  |
|   |                 | %8nDD%BU+8+8n+377+377+377+377+377+377  |  | 101015.00              |  |
|   |                 |  | 377<br>377   | 101015.10<br>101015.20 |  |
|   |                 |  | 377  | 101015.30              | V  |
|   |                 |  | 377  |                        |  |
|   |                 |  | 377  | 101015.50              |  |
|   |                 |  | 377  | 101015.60              |  |
|   |                 |  | 977  | 101015.70              |  |
|   |                 | %8mDD%8U+64+8m+12525252525252525252  | 1252525252525252525252   | 101016.00              |  |
|   |                 | %8¤DD%BU•64•8¤•05252525252525252525  | 0525252525252525252525   | 101017.00              |  |
|   |                 |  |  |                        |  |
|   | <b>e</b>        | THET A   |  |                        |  |
| (                                       |                 | TEST 2+  |  |                        |  |
| ( · · · · · · · · · · · · · · · · · · · | RCRD1           | %8nDD%BU+8+8n+000 @CHAR CONTROL BYTE FOR PRINTING.   | 000  | 101020.00              |  |
|   | NUNU !          | % AZDDD%BU,8,8m,TEST 2. DATA AND BACKSPACE TESTZ   | 000  | 101020.10              |  |
| (                                       |                 | % AZDDDBBU.8.8m. THIS IS RECORD 1 - TEST TWOZ  |  | 101024.00              |  |
|   |                 | % AZDDD%BU,8,8m,10 WORDS, CDSCZ  |  | 101030.00              |  |
|   |                 |  |  | 20203000               |  |
| (                                       | 6               |  |  |                        |  |
|   | RCRD2           | %8nDD%BU,8,8n,000 @CHAR CONTROL BYTE FOR PRINTING.   | 000  | 101032.00              |  |
|   |                 | % AZDD%BU.8.8m.TEST 2. RECORD 2 - 15 WORDS. CDZ  |  | 101032.10              |  |
| (                                       |                 | * AZ DD WBU+8+8H+SCDATA FOLLOWSABCDEFGHIJKLZ   |  | 101036.00              |  |
| 1                                       |                 | % AADDD%BU.8.80.MNOPQRSTUVWXYZ0123456789A % AZDDD%BU.8.80.RECORD 3 IS BCKSP TEST. Z  |  | 101042.00<br>101046.00 |  |
|   | <u> </u>        | AZADDABOJAJABIRECORD 3 13 BCKSP TESTA Z  |  | 101040100              |  |
| <u> </u>                                |                 |  |  |                        |  |
|   | RCRD3           | %8mDD%BU+8+8m+000 @CHAR CONTROL BYTE FOR PRINTING.   | 000  | 101051.00              |  |
|   |                 | % AZEDD%BU.8.8E.IF THIS PRINTS. BACKSPACE FAILEZ   |  | 101051.10              |  |
| # *                                     |                 | % AZ DD%BU,8,8 m,DZ  |  | 101055.00              |  |
|   |                 |  |  |                        |  |
| -                                       | <b>6</b>        | MARKANII A AR AAA AALIAN AALIAN AALIAN MUTE EAN ANIMITIA   | 000  | 101056 00              |  |
| 18                                      | RCRD4           | %8mDD%8U+8+8m+000 @CHAR CONTROL BYTE FOR PRINTING. % AZmDD%8U+8+8m+TEST 2. BACKSPACE WORKED IF THIZ  | 000  | 101056.00              |  |
| 1                                       |                 | W AZDDWBU 8 8 8 0 S LINE 3Z  |  | 101062.00              |  |
|   | <i>e</i>        |  |  |                        |  |
| 15                                      |                 |  |  |                        |  |
|   | RCRD5           | %8mDD%BU+8+8m+000 @CHAR CONTROL BYTE FOR PRINTING.   | 000  | 101063.00              |  |
|   |                 | % AZDDD%BU.8.80.TEST 2. RECORD 4. 10 WORDS. CR.Z   |  | 101063.10              |  |
| [ <u> </u>                              |                 | % AZDDWBU+8+8D+ THIS IS THE LAST RECORD OF TESTZ   |  | 101067.00              | . 5  |
| · · · · · · · · · · · · · · · · · · ·   |                 | % AZUDD%BU,8,8u, 2XXXXXXXXXXXX   |  | 101073-00              |  |
| ·                                       | @               | TRCT A   | •  |                        |  |
| <u></u>                                 | <u> </u>        | TEST 3.  |  |                        |  |
| ·                                       |                 |  |  |                        | ¥  |
|   | RCRD10          | %8mDD%BU.8.8m.000 eCHAR CONTROL BYTE FOR PRINTING.   | 000  | 101075.00              | <del></del>  |
| 5                                       |                 | % AZDD%BU.8.8D.TEST 3. TAPE MARK RECOGNITION.RZ  | Ž.   | 101075.10              |  |
| 4                                       |                 | % AZDD%BU.8.8D.ECORD 1.Z   | <del>,</del>   | 101101.00              | <del></del>  |
| <u> </u>                                | <u>e</u>        |  |  |                        |  |
|   | BCBUII          | % AZDDDBBU.8.8D.IF THIS PRINTS.TAPE MARK FAILED.Z  | and the second of the second o | 101102.00              |  |
| 2.1.44 LT                               | 77 - 77 - 2 4 4 | The state of the s | en de la companya de<br>La companya de la co   |                        | المأخض <b>ا</b> ت بي المراجع الم |

| RCRD12   |             | % AZEDD%BU,8,8m,XXXXXXXX                           |          | 101106.00 |
|--|-------------|--|----------|-----------|
| \$ AZDD\$8U.8.8u.TEST 4.BACKSPACE FILE TEST. RECZ  \$ AZDD\$8U.8.8u.OOD  RCRD13  |             | TEST4 .  | <u>.</u> |           |
| ### AZMDD#BU.8.8B.00D 1Z    Color  | e<br>RCRD12 |  | 000      |           |
| RCRD13 %8 DD D BBU + 8 + 8 D + 000   |             |  |          |           |
| # AZ IDD # BU & 8 + 8 II + I + I + I + I + I + I + I +   | •           | AZUVJEO JOH JORU 18882                             |          | 101113400 |
| # AZ IDD # BU - 8 - 8 II - THIS PRINTS - BACKSPACE FILE FZ 101114 - 10  # AZ IDD # BU - 8 - 8 II - AILED   | RCRD13      | %8DDD%BU,8,8D,000 @CHAR CONTROL BYTE FOR PRINTING. | 000      | 101114.00 |
| ### RCRD14 %8##DD%BU+8+8#+000 ### CONTROL BYTE FOR PRINTING.  ### AZ##DD%BU+8+8##+FD+++++  | .1          | % AZEDD%BU.8.8E.IF THIS PRINTS:BACKSPACE FILE FZ   |          | 101114-10 |
| # AZHDD%BU,8,8H,TEST 4.BACKSPACE FILE TEST PASSZ 101121.10 # AZHDD%BU,8,8H,FDZ 101125.00  # TEST 5. # TEST 5. # AZHDD%BU,8,8H,000 #CHAR CONTROL BYTE FOR PRINTING. 000 101126.00 # AZHDD%BU,8,8H,SPACE FILE,TEST 5, FAILED,XXXXXZ 101126.10 # AZHDD%BU,8,8H,XXXXXXXXXZ 101132.00  # RCRD16 %BHDD%BU,8,8H,000 #CHAR CONTROL BYTE FOR PRINTING. 000 101133.00 # RCRD16 %BHDD%BU,8,8H,000 #CHAR CONTROL BYTE FOR PRINTING. 000 101133.00 # AZHDD%BU,8,8H,TEST 5, SPACE FILE TEST PASSED,Z 101133.10 |             | % AZEDD%BU+8+8E+AILED•••Z                          |          | 101120.00 |
| # AZHDD%BU,8,8H,TEST 4.BACKSPACE FILE TEST PASSZ 101121.10 # AZHDD%BU,8,8H,FDZ 101125.00  # TEST 5. # TEST 5. # AZHDD%BU,8,8H,000 #CHAR CONTROL BYTE FOR PRINTING. 000 101126.00 # AZHDD%BU,8,8H,SPACE FILE,TEST 5, FAILED,XXXXXZ 101126.10 # AZHDD%BU,8,8H,XXXXXXXXXZ 101132.00  # RCRD16 %BHDD%BU,8,8H,000 #CHAR CONTROL BYTE FOR PRINTING. 000 101133.00 # RCRD16 %BHDD%BU,8,8H,000 #CHAR CONTROL BYTE FOR PRINTING. 000 101133.00 # AZHDD%BU,8,8H,TEST 5, SPACE FILE TEST PASSED,Z 101133.10 |             |  |          |           |
| # AZUDD%RU,8,80,FD   | RCRD14      |  | 000      |           |
| ### RCRD15 %8mDD%BU*8*8m*000 ### CONTROL BYTE FOR PRINTING. 000 101126*00  % AZmDD%BU*8*8m*XXXXXXXXX 101126*10  % AZmDD%BU*8*8m*XXXXXXXXX 101132*00  ##################################  |             |  | <u> </u> |           |
| ### RCRD15 %8mDD%BU*8*8m*000 ### CONTROL BYTE FOR PRINTING. 000 101126*00  % AZmDD%BU*8*8m*XXXXXXXXX 101126*10  % AZmDD%BU*8*8m*XXXXXXXXX 101132*00  ##################################  |             |  |          |           |
| # AZIDD%RU+8+8H+SPACE FILE+TEST 5+ FAILED-XXXXXZ 101126-10 # AZIDD%BU+8+8H+XXXXXXXXZ 101132-00  # RCRD16 %8HDD%BU+8+8H+000 @CHAR CONTROL BYTE FOR PRINTING- 000 101133-00 # AZIDD%BU+8+8H+TEST 5- SPACE FILE TEST PASSED-Z 101133-10   |             | TEST 5.  |          |           |
| # AZIDD%RU+8+8H+SPACE FILE+TEST 5+ FAILED-XXXXXZ 101126-10 # AZIDD%BU+8+8H+XXXXXXXXZ 101132-00  # RCRD16 %8HDD%BU+8+8H+000 @CHAR CONTROL BYTE FOR PRINTING- 000 101133-00 # AZIDD%BU+8+8H+TEST 5- SPACE FILE TEST PASSED-Z 101133-10   | 1           |  |          |           |
| # AZUDD%BU+8+8H+XXXXXXXXX 101132.00  RCRD16 %8UDD%BU+8+8U+000  | RCRD15      |  | 000      |           |
| RCRD16 %8mDD%BU,8,8m,000 @CHAR CONTROL BYTE FOR PRINTING. 000 101133.00 % AZmDD%BU,8,8m,TEST 5. SPACE FILE TEST PASSED.Z 101133.10   | · ·         |  |          |           |
| * AZUDD%BU.8.8m.TEST 5. SPACE FILE TEST PASSED.Z   |             |  | 316.7    |           |
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|          | TAPE TESTS READ IN                     | ARFA   |          |           |
|----------|--|--|----------|-----------|
| •        |  |  |          |           |
| e        |  |  |          |           |
| •        | TEST 1.                                |  |          |           |
|          |  |  |          |           |
| <b>.</b> | ************************************** | ON MORNE ALL ONES BYTES STARTS AT                | 10.00    | 101140.00 |
| TPRD1    | DR%8U+64+8¤+8                          | @BYTE 7 AND SHIFTS LEFT ONE BYTE @FOR EACH WORD. | 10.00    | 101140.00 |
|          | DR%BU,64,8m,2                          | @ALL ZEROS WORD @ALL ONES WORD                   | 2.00     | 101150.00 |
|          | DR%BU,64,8m,1                          | @10101WORD                                       | 1.00     | 101152.00 |
|          | DR%BU.64.8n.1                          | @01010WORD                                       | 1.00     | 101153.00 |
| •        |  |  |          |           |
|          |  |  |          |           |
| <b>@</b> | TEST 2.                                |  |          |           |
| TPRD2    | DR%BU+64+8#+10                         |  | 12.00    | 101154.00 |
| TPRD3    | DR%BU+64+8m+15                         |  | 17.00    | 101166.00 |
| TPRD4    | DR%8U,64,8m,5                          |  | 5.00     | 101205.00 |
| TPRD5    | DR%BU.64.8m.10                         |  | 12.00    | 101212.00 |
| <b>e</b> |  |  |          |           |
| 0        | TEST 3.                                |  |          |           |
| PRD6     | DR%BU+64+8m+15                         |  | 17.00    | 101224.00 |
| e<br>e   | UKMDU \$ 04 \$ 0H \$ 1.5               |  | 17.00    | 101224100 |
|          | TEST 4.                                |  | <b>A</b> |           |
| ė        |  |  |          | *****     |
| TPRD7    | DR%BU+64+8#+15                         |  | 17.00    | 101243.00 |
|          |  |  |          |           |
|          | TEST 5.                                |  | -        |           |
| TPRD8    | DR%BU+64+8H+10                         |  | 12.00    | 101262.00 |

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|                                       | CONSOLE TEST                            |                                   |                                       |           |
|---------------------------------------|---|-----------------------------------|---------------------------------------|-----------|
| •                                     |   |                                   |                                       |           |
|                                       | THIS TEST TESTS READ AN                 | D WRITE OPERATION                 |                                       |           |
| ě                                     | OF THE CONSOLE. CONTROL                 | WORDS AND CONSTANS                |                                       |           |
| 0                                     | ARE PROVIDED FOR WRITE                  | OPERATIONS- CONTROL               |                                       |           |
| <u> </u>                              | WORDS AND RESERVED LOCA                 | TIONS FOR READ OPERATIONS         |                                       |           |
| <b>e</b>                              |   |                                   |                                       | •         |
|                                       |   |                                   |                                       |           |
| <b>e</b>                              | TEST ONE-TESTS WR                       | ITE OPERATION ON CHSL LTS         |                                       |           |
|                                       |   | etesting word one                 |                                       |           |
| CNSL1                                 | CW%CRI,WORD1,1;0                        | WORD ONE-BYTE NUMBER              | 101356.00 00 000020.00 00             | 101274.00 |
| CNSLI                                 | CW%CR=+WORD161++1+0                     | WORD ONE-ALL ONES                 | 101357.00 00 000020.00 00             | 101275.00 |
|                                       | CW%CR , WORD162 . , 1 , 0               | WORD ONE-ALL ZEROS                | 101360.00 00 000020.00 00             | 101276.00 |
|                                       | CW%CR . WORD163 1.0                     | WORD ONE-ONES AND ZEROS           | 101361.00 00 000020.00 00             | 101277.00 |
| •                                     | THAT I THOUSAND                         | e BYTE PATTERN                    |                                       |           |
|                                       |   |                                   |                                       |           |
|                                       |   | etesting word two                 |                                       |           |
| @                                     | ALMERT HOORIES                          | eword two-Eights                  | 101361.00 00 000040.00 00             | 101300.00 |
|                                       | CW%CRH+WORD163++2+0                     | eword Two-SEVENS                  | 101362.00 00 000040.00 00             | 101301.00 |
|                                       | CW%CRD+WORD164++2+0 CW%CRD+WORD161++2+0 | eWORD TWO-BLANK                   | 101357.00 00 000040.00 00             | 101302.00 |
| •                                     | CWSCRII WORDIGIA 32 SU                  | ENVIL INVESTIGATION               |                                       |           |
| <u> </u>                              |   | ATTENTION HORE THEFT              |                                       |           |
| •                                     |   | etesting word three               |                                       |           |
|                                       | CW%CR=,WORD1-1.,3,0                     | WORD THREE-ALL ONES               | 101355.00 00 000060.00 00             | 101303.00 |
|                                       |   |                                   |                                       |           |
|                                       | TEST TWO-TESTS CF                       | ON A WRITE OPERATION              |                                       |           |
| •                                     |   | eCHAINING TWO WORDS               |                                       |           |
| CNSL2                                 | CW&CCRE-WORD1&3I.CNSL                   | 261. GWORD ONE-BYTE PATTERN       | 101361.00 40 000022.02 C5             | 101304.00 |
|                                       | CW%CR=, WORD164 1 . 0                   | GWORD TWO-ALL EIGHTS              | 101362.00 00 000020.00 00             | 101305.00 |
| •                                     |   |                                   | ·                                     |           |
| e                                     |   | eCHAINING THREE WORDS             |                                       |           |
|                                       | CHRCCB#+MORD1&1-+1+CNSI                 | 263. WORD ONE-ALL ONES            | 101357.00 40 000022.02 C7             | 101306.00 |
|                                       | CWCCREAWORD1 &4.41 CNSI                 | 264. WORD TWO-ALL EIGHTS          | 101362.00 40 000022.02 C8             | 101307.00 |
|                                       | CW%CRD,WORD162.,1,0                     | WORD THREE-ALL ZEROS              | 101360.00 00 000020.00 00             | 101310.00 |
|                                       |   |                                   |                                       |           |
|                                       | TEST THREE-TESTS                        | READ OPERATION FROM CNSL SWITCHES |                                       |           |
| ©<br>CNSL3                            | CW%CR=+WORD2+1+0                        | PREAD ONE WORD-DATA               | 101364.00 00 000020.00 00             | 101311.00 |
| 4                                     |   | WILL BE IN WORD 2                 |                                       |           |
|                                       | CW%CRD, WORD261.0.2.0                   | CREAD TWO WORDS-DATA              | 101365.00 00 000040.00 00             | 101312.00 |
|                                       |   | WILL BEGIN AT WORD 261.0          |                                       | 101010 00 |
|                                       | CW%CR=+WORD263+0+3+0                    | PREAD THREE WORDS-DATA            | 101367.00 00 000060.00 00             | 101313.00 |
| · · · · · · · · · · · · · · · · · · · |   | WILL BEGIN AT WORD 263.0          |                                       |           |
| <u> </u>                              | USE THE SAME CONTROL W                  | ORDS AND WRITE                    |                                       |           |
| <b>E</b> >                            |   |                                   | · · · · · · · · · · · · · · · · · · · |           |
| <b>@</b>                              | OUT DATA FOR CHECKING.                  |                                   |                                       |           |

TEST FOUR-TESTS READ OPERATION FROM CONSL SW AND CF

| 1  | <b>e</b> 144   |   |  | A Company of the Comp |
|--|--|---|--|--|
|  | <u>e</u>   | POT SETTINGS  |  |  |
|  | CNSL4  | CW%CCR¤,WORD3.1.CNSL4&1 @CHAINING TWO WORD                  | 101372.00 40 000022.02 CD 101314                                     | - ^^   |
|  |  | CW%CR#+WORD361++2+0   | 101372.00 40 000022.02 CD 101314<br>101373.00 00 000040.00 00 101315 |  |
|  |  | CW%CCR#+WORD4+1+CNSL463.0 @CHAINING THREE WORDS             | 101375.00 40 000022.02 CF 101316                                     | - nn   |
|  | Manuschille day annual manual  | CW%CCRD, WORD461.0.1, CNSL464.0 @DATA WILL BEGIN AT WORD 4  | 101376.00 40 000022.02 DO 101317                                     | 7.00   |
| 1  | •  | CW%CRI+WORD462.0.1.0  | 101377.00 00 000020.00 00 101320                                     | ∙00  |
|  |  | USE THE SAME CONTROL WORDS AND WRITE OUT DATA FOR CHECKING. |  |  |
|  |  | OUI DATA FOR CHECKING.                                      |  |  |
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| <b>e</b>                              | IESI FIVE IESIS IY  | PEWRITER WRITE OPERATION  @AND END CODE            |  |                        |
|---------------------------------------|---|--|--|------------------------|
| e<br>CHCL E                           | CW%CR0+TYPW1-3.0.4.0  | eTYPES ONE WORD                                    | 101400.00 00 000100.00 00                              | 101321.00              |
| CNSL5                                 | CM#CKH#!!PM!-3*0###0  | eWHICH ISOCROTYP TST                               | 101400400 00 000100400 00                              | 10132100               |
|                                       | CWSCR#+TYPW2-3.0.5.0  | PEND CODE TEST-TYPE                                | 101405.00 00 000120.00 00                              | 101322.00              |
|                                       |   | OTWO WORDS AND END                                 |  |                        |
|                                       |   | eWORDS ARE+ CR+END                                 |  |                        |
|                                       |   | eCODE TEST.END                                     |  |                        |
| •                                     | ÉUM COM. TVOUSES A 14.A   | CTYPE ONE LINE                                     | 101413.00 00 000340.00 00                              | 101323.00              |
|                                       | CW%CR=+TYPW3-3-0-14-0   | WHICH IS-  | 101413.00 00 000340.00 00                              | 10132300               |
|                                       |   | ecr. A B C D E F G                                 |  |                        |
|                                       |   | eH I J K L M N O                                   |  |                        |
|                                       |   | eP Q R S T U V W X                                 |  |                        |
|                                       |   | ey Z 1 2 3 4 5 6                                   |  |                        |
| <u> </u>                              |   | e7 8 9 0 BS END CR                                 |  |                        |
| •                                     |   |  |  |                        |
| •                                     | TEST SIX-TESTS TYP  | EWRITER WRITE                                      |  |                        |
|                                       |   | COPERATION AND CF                                  |  |                        |
| •                                     |   | * * * * * * * * * * * * * * * * * * *              | 101431 00 40 000107 07 82                              | 101324.00              |
| CNSL6                                 | CW%CCRD.TYPW4-3.0.4.CNSL  | 661. @CHAINS TWO WORDS  @WORDS ARE-CHAINING        | 101431.00 40 000102.02 D5<br>101434.02 00 000020.00 00 | 101325.00              |
|                                       | CWSCRD9 (TPW4629190   | etest s.on failure-fail                            | 101434402 00 000020400 00                              | 101323400              |
| •                                     |   | ETCOT OFFICE PARTIES                               |  |                        |
|                                       | CW&CCRE.TYPW4-34.CNSL6  | 63. OCHAINS THREE WORDS                            | 101431.00 40 000102.02 D7                              | 101326.00              |
|                                       | CW%CCRD.TYPW4621.CNSL6  |  | 101436.00 40 000022.02 D8                              | 101327.00              |
|                                       | CWSCRD.TYPW4841.0   | etest successon                                    | 101440.00 00 000020.00 00                              | 101330.00              |
| •                                     |   | efailure-fail                                      |  |                        |
| •                                     | TEST SEVEN-TESTS T  | YPWRITER WRITE                                     |  | :                      |
| •                                     |   | POPERATION ME AND CE                               |  |                        |
| •                                     |   | ALIAN MARKET LIANGE                                | 101441 00 20 000220 00 00                              | 101331 00              |
| CNSL7                                 | CW%CDI + TYPW5-3 + + 9 + 0  | eWRITE THREE WORDS  eWITH END CODE                 | 101441.00 20 000220.00 00                              | 101331.00              |
| <b>e</b>                              |   | ebetween words                                     |  |                        |
| P                                     |   | eWORDS ARE-MLTPLE                                  |  | :                      |
| ě                                     |   | eTEST SUCCESSFUL                                   |  |                        |
| <b>e</b>                              |   | ON FAILURE-FAIL                                    |  |                        |
| 6                                     |   | TO THE THE THE THE THORSE ON THE THE               | 101452 40 40 000103 03 08                              | 103999 00              |
|                                       |   | 762. EWRITE TWO WORDS ON TYPEWRITER                | 101456.00 00 000102.02 08                              | 101332.00<br>101333.00 |
| · · · · · · · · · · · · · · · · · · · | CW%CR0+TYPW6&1++4+0   | ethe end code and count zerk eoccur simultaneously | 101426400 00 000100400 00                              | 101333800              |
| •                                     |   | GARRIE ASTIANTENENE .                              |  |                        |
| •                                     |   |  |  |                        |
|                                       | TEST EIGHT-TESTS T  |  |  | American Mahadari      |
| <b>A</b>                              |   | @READ OPERATION                                    | •  |                        |
| <b>@</b>                              | THE FOLLOWING CWS READ 4  | O CHARACTERS TYPED IN                              |  |                        |
| <u>e</u>                              | TITLE TO COMMON A FEW CONTROL OF THE PROPERTY |  |  |                        |
| CNSL8                                 | CW%CR=+TYPR1+8+0  |  | 101465.00 00 000200.00 00                              | 101334.00              |
|                                       |   | A  |  |                        |
| <b>e</b>                              | THE FOLLOWING CWS READ 4  |  |  |                        |
| <u></u>                               | CHAINS AND READS 32 MORE  | • •  | *  |                        |
| <b>₩</b>                              | CW%CCRB,TYPR2,8,561.  |  | 101475.00 40 000202.02 DE                              | 101335.00              |
|                                       | CW%CR#+TYPR3+4+0  |  | 101505.00 00 000100.00 00                              | 101336.00              |
| •                                     |   |  |  |                        |
| 0                                     | USE THE SAME CONTROL WOR  | DS AND WRITE                                       |  |                        |
|                                       | OUT DATA FOR CHECKING.  |  |  | M                      |

| •                                      | and the second of the second o |                                       | · · · · · · · · · · · · · · · · · · · |                                       |
|--|--|---------------------------------------|---------------------------------------|---------------------------------------|
| <b>e</b>                               | THE FOLLOWING CWS TEST NO WHEN IN MF MODE AND AN E   | · · · · · · · · · · · · · · · · · · · |                                       |                                       |
|  | ENTERED FROM THE CONSOLE   |                                       |                                       |                                       |
|  | NEXT 3 WORDS WILL BE REA   |                                       |                                       |                                       |
| ······································ | FOR ONE TEST-COUNT CHARA   | ACTERS AND                            |                                       |                                       |
| •                                      | HAVE THE END CODE AND CO   | OUNT ZERO OCCUR                       |                                       |                                       |
|  | SIMULTANEOUSLY   |                                       |                                       | · · · · · · · · · · · · · · · · · · · |
| · · · · · · · · · · · · · · · · · · ·  | CW%CDF1+TYPR4+8+0  |                                       | 101511.00 20 000200.00 00             | 101337.00                             |
|  | CW%CDE,TYPR5,25,0  | GREAD IN MF MODE                      | 101521.00 20 000620.00 00             | 101340.00                             |
|  | CW%CDSCII+TYPR7+10+6-2.  | @MF AND CF SIM-TYPE 8 CHAR            | 101556.00 60 000257.77 FE             | 101341.00 C                           |
| ~                                      |  | 88.0 @MORE MF AND CF CW               | 101570.00 60 000502.02 E4             | 101342.00                             |
|  | CW%CCR#,TYPR9,20,CN5L8&9   | 9.0                                   | 101614.00 40 000502.02 E5             | 101343.00                             |
|  | CW%CRB+TYPR10+20+0   |                                       | 101640.00 00 000500.00 00             | 101344.00                             |
| e                                      |  |                                       |                                       |                                       |
| <b>e</b>                               | TEST NINE -TESTS F   |                                       |                                       |                                       |
|  |  | eWITH SF.MF.AND CF.                   |                                       |                                       |
| <b>&gt;</b>                            | THE FOLLOWING CWS ARE  | FOR READING                           |                                       |                                       |
| <b>@</b>                               | eWITH MF. SF. AND CF.  |                                       |                                       |                                       |
| ė                                      | EXECUTE THE FOLLOWING CV   | W TO TEST CF AND SF.                  |                                       |                                       |
| CNSL9                                  | CW%SCCR#+TYPR11+5+CNSL9/   | 61.0 esf and cf test, skip 5          | 101664.00 50 000122.02 E6             | 101345.00                             |
| •                                      | CW%CR¤+TYPR12+3+0  | eTYPE 3 WORDS                         | 101667.00 00 000060.00 00             | 101346.00                             |
| •                                      | CW TO PRINT OUT DATA ON  | CONSOLE.                              |                                       |                                       |
| <u>e</u>                               | CW%CR=+TYPR12-3-+6+0   |                                       | 101664.00 00 000140.00 00             | 101347.00                             |
| <u> </u>                               | CW%CRE, TYPR11,5,0   | eCW FOR TEST SF AND CF                | 101664.00 00 000120.00 00             | 101350.00                             |
| •                                      | EXECUTE THE FOLLOWING C  | W TO TEST CF. SF. AND MF.             |                                       |                                       |
| <b>@</b>                               | CWSCDSCD+TYPR13+4+\$61.  | #SF CF. AND MF TEST                   | 101672.00 70 000102.02 EA             | 101351.00                             |
|  | CW%CD0, TYPR14,5,0   | edisregards end codes                 | 101676.00 20 000120.00 00             | 101352.00                             |
| •                                      | CW TO PRINT OUT DATA ON  | CONSOLE.                              |                                       |                                       |
| <del></del>                            | CW%CDD+TYPR13+4+0  | eCW FOR TEST SF+CF+ AND MF            | 101672.00 20 000100.00 00             | 101353.00                             |
|  | CW%CDD+TYPR14-3-+6+0   |                                       | 101673.00 20 000140.00 00             | 101354.00                             |

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| •  |  |   |                        |
|--|--|---|------------------------|
| WORD1  | DR%BU.64.8u.1 %8uDD%BU.8.8u.000.001.002.003.004.005.006.007 @BYTE NUMBER WD  | 1.00                                    | 101355.00<br>101356.00 |
| WORDI  | #OUTDD BOOK OF SOUTH OUTS OUTS OUTS SOUTH FOR SOUTH OF SOUTH |   |                        |
|  |  | 001                                     | 101356.10<br>101356.20 |
|  |  | 002<br>003                              | 101356.30              |
|  |  | 004                                     | 101356.40              |
|  |  | 005                                     | 101356.50              |
|  |  | 006                                     | 101356.60              |
|  |  | 007                                     | 101356.70              |
| The second secon | %8mDD%8U+8+8m+377+377+377+377+377+377+377 @ALL ONES WORD   | 377                                     | 101357.00              |
|  |  | 377                                     | 101357.10              |
|  |  | 377                                     | 101357-20              |
|  |  | 377                                     | 101357.30              |
|  |  | 377                                     | 101357.40              |
|  |  | 377                                     | 101357.50              |
|  |  | 377                                     | 101357.60              |
|  |  | 377                                     | 101357.70              |
|  | DD%BU,64,80,0 @ALL ZEROS WORD  | 000000000000000000000000000000000000000 | 101360.00              |
|  | \$80DD\$BU.8.80.377.000.377.000.377.000 .877.000 .877EPATTERN  | 377                                     | 101361.00              |
|  |  | 000                                     | 101361.10              |
|  |  | 377                                     | 101361.20              |
|  |  | 000                                     | 101361.30              |
|  |  | 377                                     | 101361.40              |
|  |  | 000                                     | 101361.50              |
|  |  | 377                                     | 101361.60              |
|  |  | 000                                     | 101361.70              |
|  | %8nDD%BU+8+8n+210+210+210+210+210+210+210+210 @ALL FIGHTS  | 210                                     | 101362.00              |
|  |  | 210                                     | 101362-10              |
|  |  | 210                                     | 101362.20              |
|  |  | 210                                     | 101362.30              |
|  |  | 210                                     | 101362-40              |
|  |  | 210                                     | 101362.50              |
|  |  | 210                                     | 101362.60              |
|  |  | 210                                     | 101362.70              |
|  | %8mDD%BU.8.8m.167.167.167.167.167.167.167.167.167 @ALL SEVENS  | 167                                     | 101363.00              |
|  |  | 167                                     | 101363.10              |
|  | ·  | 167                                     | 101363.20              |
|  |  | 167                                     | 101363.30              |
|  |  | 167                                     | 101363.40              |
|  |  | 167                                     | 101363.50              |
|  |  | 167                                     | 101363-60              |
|  |  | 167                                     | 101363.70              |
|  |  |   |                        |
| WORD2  | DR%BU,64,85,6 @READ OPERATION  | 6.00                                    | 101364.00              |
| WORD3  | DR%BU,64,8m,3 @DATA RESERVATIO   | 3.00                                    | 101372.00              |
| WORD4  | DR%BU,64,83,3  | 3.00                                    | 101375.00              |
| TYPWO  | DR%BU,64,8m,3 ereserves Locations for  | 3.00                                    | 101400.00              |
|  | efirst three words in  |   |                        |
|  | @A TYPEWRITER OPERATION  |   |                        |
| TYPW1  | %16mDD%BU+8+8m+FD+53+5D+4B+00+53+51+53 @CR+TYP TEST  | 375                                     | 101403.00              |
|  |  | 123                                     | 101403.10              |
|  |  | 135                                     | 101403.20              |
| A774   |  | 113                                     | 101403.30              |
|  |  | 000                                     | 101403.40              |
|  |  | 123                                     | 101403.50              |
|  |  | 121                                     | 101403.60              |
|  |  | 123                                     | 101403.70              |
|  | %16mDD%BU.8.8m.37.2D.3D.43.35.33.00.00   | 067                                     | 101404.00              |
|  | படுகள்ளைகள் பிதுவை உள்ளைகள்ளாக காக்கள் இது   | 055                                     | 101404.10              |
|  |  | 075                                     | 101404-20              |
|  |  | <b>313</b>                              | ~~~ ·~ ·~ ·~           |

| yanta Marani                          |  |  | 085        | 101404.40              |
|---------------------------------------|--|--|------------|------------------------|
| . ( <u></u>                           |  |  | 063        | 101404.50              |
| †                                     |  |  | 000        | 101404.60<br>101404.70 |
|                                       | DR%BU,64,8m,3 . @DATA RESERVATION  | 3.00   |            | 101405.00              |
|                                       | TYPW2 %16mDD%BU+8+8m+FD+35+47+33+00+31+49+33 PEND COD  |  | 375        |                        |
|                                       |  |  | 065        | 101410.10              |
| · · · · · · · · · · · · · · · · · · · |  |  | 107        | 101410.20              |
|                                       |  |  | 063        | 101410.30              |
|                                       |  |  | 000        | 101410-40              |
|                                       |  |  | 061<br>111 | 101410-50              |
| 1                                     |  |  | 063        | 101410.60<br>101410.70 |
|                                       | %16mDD%BU+8+8m+35+00+53+35+51+53+00+FE @F TEST+ END  |  | 065        | 101411.00              |
| ·                                     |  |  | 000        | 101411.10              |
| (                                     |  |  | 123        | 101411.20              |
| Ì                                     |  |  | 065        | 101411.30              |
| ·                                     |  |  | 121        | 101411.40              |
|                                       |  |  | 123        | 101411.50              |
| -                                     |  |  | 000        | 101411.60              |
| 1                                     | #94  |  | 376        | 101411.70              |
| <i>A</i> :                            | %16mDD%8U+8+8m+37+2D+3D+43+35+33+00+00 @FAILED   |  | 067        | 101412.00<br>101412.10 |
|                                       |  |  | 055<br>075 | 101412.10              |
|                                       |  |  | 103        | 101412.30              |
| , '                                   |  |  | 065        | 101412.40              |
|                                       |  |  | 063        | 101412.50              |
| 1                                     |  |  | 000        | 101412.60              |
| · ( )                                 |  |  | 000        | 101412.70              |
|                                       | DR%BU,64,81,3 @DATA RESERVATION  | 3.00   |            | 101413.00              |
|                                       | TYPW3 %16mDD%BU+8+8m+FD+2D+00+2F+00+31+00+33 @CR+ A B C D  | 3.00   | 375        | 101416.00              |
| 1                                     |  |  | 055        | 101416.10              |
|                                       |  |  | 000        | 101416.20              |
|                                       |  |  | 057        | 101416.30              |
| : 1                                   |  |  | 000        | 101416.40              |
|                                       |  | •  | 061        | 101416.50              |
| · · · · · · · · · · · · · · · · · · · |  |  | 000        | 101416.60              |
|                                       | NT   |  | 063<br>000 | 101416.70<br>101417.00 |
|                                       | %16mDD%BU+8+8m+00+35+00+37+00+39+00+38   |  | 065        | 101417.10              |
| · · · · · · · · · · · · · · · · · · · |  |  | 000        | 101417.20              |
| 1                                     |  |  | 067        | 101417.30              |
|                                       |  |  | 000        | 101417.40              |
|                                       | ŧ  |  | 071        | 101417.50              |
| 1 -                                   |  |  | 000        | 101417.60              |
| 1                                     |  |  | 073        | 101417.70              |
| 18                                    | %16nDD%BU+8+8n+00+3D+00+3F+00+43 @I J K L  |  | 000        | 101420.00              |
| 1                                     |  |  | 075<br>000 | 101420.10<br>101420.20 |
|                                       | ,  |  | 077        | 101420-20              |
| 15                                    |  |  | 000        | 101420.40              |
| 14                                    |  |  | 101        | 101420.50              |
|                                       |  |  | 000        | 101420-60              |
| 1,2                                   |  |  | 103        | 101420.70              |
| 1 1                                   | %16DD%BU,8,8D,00,45,00,47,00,49,00,4B @M N O P   |  | 000        | 101421.00              |
|                                       |  |  | 105        | 101421.10              |
| 8                                     |  | *  | 000<br>107 | 101421.20<br>101421.30 |
| 1-:                                   |  | 4  | 000        | 101421.40              |
|                                       |  |  | 111        | 101421.50              |
| 1                                     |  |  | 000        | 101421.60              |
| 4                                     |  |  | 113        | 101421.70              |
|                                       | %16mDD%BU,8,8m,00,4D,00,4F,00,51,00,53 @Q R S T  |  | 000        | 101422.00              |
| 1                                     | and the second of the second o |  | 115        | 101422-10              |
|                                       | en grande de la composition de la factoria de la composition de la composition de la composition de la composi<br>La composition de la   | en de la composition de la composition<br>La composition de la | 000        | 101422.20              |

| And the second s |      | 117        | 101422.30              |
|--|------|------------|------------------------|
|  |      | 000        | 101422.40              |
|  |      | 121        | 101422.50              |
|  |      | 000        | 101422.60              |
| %16HDD%BU-8-8#-00-55-00-57-00-59-00-5B @U V W X  |      | 123<br>000 | 101422.70<br>101423.00 |
| A COMPONE OF STATE OF |      | 125        | 101423.10              |
|  |      | 000        | 101423.20              |
|  |      | 127        | 101423.30              |
|  |      | 000        | 101423+40              |
|  |      | 131        | 101423.50              |
|  |      | 000        | 101423.60              |
|  |      | 133        | 101423.70              |
| %16 mDD%BU+8+8 m+00+5D+00+5F+74+74+00 @Y Z   |      | 000        | 101424.00              |
|  |      | 135<br>000 | 101424.10<br>101424.20 |
|  |      | 137        | 101424.30              |
|  |      | 164        | 101424.40              |
|  |      | 164        | 101424.50              |
|  |      | 164        | 101424.60              |
|  |      | 000        | 101424.70              |
|  |      | 000        | 101425.00              |
|  |      | 142        | 101425•10              |
|  |      | 000        | 101425-20              |
|  |      | 144        | 101425-30              |
|  |      | 000<br>146 | 101425.40<br>101425.50 |
|  |      | 000        | 101425.60              |
|  |      | 150        | 101425.70              |
| %16mDD%8U+8+8m+00+6C+00+6E+00+70 @5 6 7 8  |      | 000        | 101426.00              |
|  |      | 152        | 101426.10              |
|  |      | 000        | 101426+20              |
|  |      | 154        | 101426-30              |
|  |      | 000        | 101426.40              |
|  |      | 156        | 101426.50              |
|  |      | <u> </u>   | 101426.60<br>101426.70 |
| %16mDD%BU,8,8m,00,72,00,60,00,FC,FD @9 0 BS, CR  |      | 000        | 101420.70              |
|  |      | 162        | 101427.10              |
|  |      | 000        | 101427.20              |
|  |      | 140        | 101427-30              |
|  |      | 000        | 101427.40              |
|  |      | 000        | 101427.50              |
|  |      | 374        | 101427-60              |
| %16mDD%BU,8,8m,35,47,33,FD,00,00,00 @END,CR  |      | 375<br>065 | 101427•70<br>101430•00 |
| MICHELIAN DO A DE LA CALLA DEL CALLA DEL CALLA DE LA C |      | 107        | 101430.10              |
|  |      | 063        | 101430.20              |
| 18   |      | 375        | 101430.30              |
|  |      | 000        | 101430.40              |
| t en   |      | 000        | 101430.50              |
| 15   |      | 000        | 101430-60              |
| DOUBLE AL DE CONTRACTOR  |      | 000        | 101430.70              |
| DR%BU,64,81,3 @DATA RESERVATION TYPW4 %16HDD%BU,8,8H,FD,31,3B,2D,3D,47,3D,47 @CHAININ  | 3.00 | 075        | 101431.00              |
| 1/ I FM4 NIGHDMBO1010M1FD13I13B42D13D141 #CHMININ  |      | 375<br>061 | 101434.00<br>101434.10 |
|  |      | 073        | 101434.20              |
|  |      | 055        | 101434.30              |
| ٩  | -    | 075        | 101434.40              |
|  |      | 107        | 101434.50              |
|  |      | 075        | 101434.60              |
| §  | •    | 107        | 101434.70              |
| 4 %16mDD%BU,8,8m,37,2D,3D,43,35,33,00,00 @FAIL   |      | 067        | 101435.00              |
|  |      | 055        | 101435.10              |
|  |      | 075        | 101435.20              |
| ကြည် <del>နှစ်ခြေများ လူလေလ လေလ လေလ</del> လေလ သည်။ သည် သည် သည် သည် သည်သည် သည် သည် သည် သည်  |      | 103        | 101435,30              |

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|   |             | 000        | 101435.60              |  |
| %16mDD%8U.8.8m,39.00,53.35.51.53.00.51 @G TEST S              |             | 000<br>071 | 101435.70<br>101436.00 |  |
| S 1531 DB TG 10045C4TC4CC4CC4CC4DG4DG9WGGB91W                 |             | 000        | 101436.10              |  |
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|   |             | 065        | 101436.30              |  |
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|   |             | 000        | 101436.60              |  |
|   |             | 121        | 101436.70              |  |
| %16mDD%BU+8+8m+37+2D+3D+43+35+33+00+00 @FAIL                  |             | 067        | 101437.00              | •  |
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|   |             | 065        | 101437.40              |  |
|   |             | 063        | 101437-50              |  |
|   |             | 000        | 101437.60              |  |
| %16mDD%8U,8.8m,55,31,31,35,51,51,74,74 @UCCESS                |             | 000        | 101437.70<br>101440.00 |  |
| #10#DDWB01848#43211211211211121114114 @OCC#33**               |             | 125<br>061 | 101440.10              |  |
|   |             | 061        | 101440.20              |  |
|   |             | 065        | 101440-30              |  |
|   |             | 121        | 101440.40              |  |
|   |             | 121        | 101440.50              |  |
|   |             | 164        | 101440.60              |  |
|   |             | 164        | 101440.70              |  |
|   |             |            |                        | ×  |
| DR%BU.64.88.3 eDATA RESERVATION                               | 3.00        |            | 101441-00              |  |
| TYPW5 %16mDD%BU,8.8m.FD,45.43.53.48.43.35.FE @CR. MLTPLE, END |             | 375        | 101444.00              |  |
|   |             | . 105      | 101444.10              |  |
|   |             | 103        | 101444-20              |  |
|   |             | 123        | 101444.30              |  |
|   |             | 110<br>103 | 101444.40              |  |
|   | 3           | 065        | 101444.60              |  |
|   |             | 376        | 101444.70              |  |
|   |             | <b>4</b>   |                        |  |
| DR%BU+64+8¤+3 @DATA RESERVATION                               | 3.00        |            | 101445.00              |  |
| %16mDD%BU,8,8m,53,35,51,53,00,51,55,31 @TEST SUC              |             | 123        | 101450.00              |  |
|   |             | 065        | 101450-10              |  |
|   |             | 121        | 101450.20              |  |
|   |             | 123        | 101450.30              |  |
|   |             | 000        | 101450.40              |  |
|   |             | 121        | 101450-50              |  |
|   |             | 125<br>061 | 101450.60<br>101450.70 |  |
| %16mDD%BU.8,8m.31,35,51,51,37,55,43,74 @CESSFUL.              |             | 061        | 101451.00              |  |
|   |             | 065        | 101451-10              |  |
|   |             | 121        | 101451-20              |  |
|   |             | 121        | 101451.30              |  |
|   |             | 067        | 101451.40              |  |
|   |             | 125        | 101451-50              |  |
|   |             | 103        | 101451.60              |  |
|   |             | 164        | 101451.70              |  |
| DR%BU,64,8m,3 @DATA RESERVATION                               | 3.00        |            | 101452.00              |  |
| TYPW6 %16mDD%BU,8,8m,FD,45,31,00,53,51,53,FE @CR, MC IST, END | 3,00        | 375        | 101455.00              |  |
| I ILEA MICHONOCAGACMAICAANANIANANALE GCUA UC 1914 EUR         |             | 105        | 101455.10              |  |
|   |             | 061        | 101455-20              |  |
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| Anna de la companya del companya de la companya del companya de la | 9                   | DR%BU+64+8H+3   |   | 3.00   |              | 101456.00  | UU                                    |
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|  |                     |   | 55+31+31+35+51+FE+5F #SUC                             |  | 121          | 101461.00  |                                       |
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| ·  |                     |   |   |  | 061          | 101461.20  |                                       |
|  |                     |   |   |  | 061          | 101461-30  |                                       |
|  |                     |   |   |  | 065          | 101461.40  |                                       |
| -  |                     | ,   |   |  | 121          | 101461.50  |                                       |
|  |                     |   |   |  | 376          | 101461.60  |                                       |
|  | ALL ONE SHALL PLANE |   |   |  | 137          | 101461.70  |                                       |
|  |                     | DR%BU . 64 . 80 . 2   |   | 2.00   | <del>-</del> | 101462.00  |                                       |
| į.   |                     |   | 2D,3D,43,35,33,00,00 @FA                              | ILEED  | 067          | 101464.00  |                                       |
| V . ·  |                     | BIOHOUNDO 1010-12:11  |   | 14 66 60   | 055          | 101464.10  |                                       |
| {  |                     |   |   |  | 075          | 101464.20  |                                       |
|  |                     |   |   |  | 103          | 101464.30  |                                       |
|  |                     |   |   |  | 065          | 101464.40  |                                       |
| ,  |                     |   |   |  | 063          | 101464.50  | •                                     |
|  |                     |   |   |  | 000          | 101464.60  |                                       |
| 1  |                     |   |   |  | 000          | 101464.70  |                                       |
|  | TVDDI               |   | ADECEBUEN EAD   | 10.00  | UUU          |  |                                       |
| 1  | TYPR1               | DR%BU,64,85,8   | ereserved for   | 10.00  |              | 101465.00  |                                       |
|  | TYPR2               | DR%BU,64,85,8   | @TYPEWRITER   | 10.00  |              | 101475.00  | · · · · · · · · · · · · · · · · · · · |
| •  | TYPR3               | DR%BU,64,85,4   | GREAD TESTS   | 4.00   |              | 101505.00  |                                       |
| ,  | TYPR4               | DR%BU+64+8m+8   |   | 10.00  | 7            | 101511.00  |                                       |
| -  | TYPR5               | DR%BU,64,80,25  |   | 31.00  |              | 101521.00  |                                       |
| !  | TYPR6               | DR%BU 64 8m 4   |   | 4.00   |              | 101552.00  |                                       |
| * in   | TYPR7               | DR%BU,64,8m,10  |   | 12.00  |              | 101556.00  |                                       |
| ( '. ———   | TYPR8               | DR%BU,64,8m,20  |   | 24.00  |              | 101570.00  |                                       |
|  | TYPR9               | DR%BU,64,8m,20  |   | 24.00  |              | 101614.00  |                                       |
| ·  | TYPR10              | DR%BU,64,8m,20  |   | 24.00  |              | 101640.00  |                                       |
| 1 -  | TYPR11              | DR%BU,64,8m,3   |   | 3.00   |              | 101664.00  |                                       |
|  | TYPR12              | DR%BU-64-8m-3   |   | 3.00   |              | 101667.00  |                                       |
|  | TYPR13              | DR%BU+64+8m+4   |   | 4.00   |              | 101672.00  |                                       |
|  | TYPR14              | DR%BU.64.8m.5   |   | 5.00   |              | 101676.00  |                                       |
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|    |   | TYPEWRITER TESTS                                     | A CONTRACTOR OF THE CONTRACTOR |  |                        |
|    | <b>e</b>  | TEST ONE-BACKSPACE TEST TEST TWO-RIPPLE TEST         |  |  |                        |
|    |   | TEST THREE-BALL MOVEMENT T                           | FST  |  |                        |
|    |   | TEST FOUR - ALL CHARACTER PRIN                       |  |  |                        |
|    | •   |  |  |  |                        |
|    |   |  | · · · · · · · · · · · · · · · · · · ·  |  |                        |
|    | <b>@</b>  | BACKSPACE TEST LOOP                                  |  |  |                        |
|    | TWT1  | CHECCOM. DET1. 11. THT1 C1                           | ARACYCDACE TEST  | 102041 00 40 000242 02 64                              | 101709.00              |
|    | + M   I   | CW%CCR#,BST1,11,TWT1&1. CW%CCR#,BST1&38,TWT1&2.      | @BACKSPACE TEST  @TYPES 3 LINES  | 102041.00 40 000262.03 C4<br>102044.00 40 000202.03 C5 | 101703.00<br>101704.00 |
|    |   | CW%CDSC¤,BST163.,8.TWT1                              | eLOOP  | 102044.00 60 000202.03 C3                              | 101705.00              |
|    |   |  |  |  |                        |
|    | <b>@</b>  |  |  |  |                        |
|    |   | RIPPLE TEST  |  |  |                        |
|    | •   |  |  |  |                        |
|    | TWT2  | CW%CCRD+RIPL+14+TWT261.                              | eripple 26 Lines   | 102064 00 40 000242 02 27                              | 101704.00              |
|    |   | CW%CCR#+RIPLO+1+TWT262.                              | @AB•••   | 102054.00 40 000342.03 C7<br>102057.00 40 000022.03 C8 | 101706.00              |
|    |   | CWSCCRE,RIPL3,10,TWT2&3.                             | @BC  | 102075.00 40 000242.03 69                              | 101710.00              |
|    |   | CWMCCRU+RIPLO+1+TWT284.                              |  | 102057.00 40 000022.03 CA                              | 101711.00              |
|    |   | CW%CCR# RIPL262 3 . TWT265 .                         | @CD  | 102072.00 40 000062.03 CB                              | 101712.00              |
|    |   | CWSCCRH+RIPL1+7+TWT266.                              |  | 102060.00 40 000162.03 CC                              | 101713.00              |
|    |   | CW%CCR#+RIPLO+1+TWT267.                              | ant.   | 102057.00 40 000022.03 CD                              | 101714.00              |
|    |   | CWSCCRD+RIPL462.+3.TWT268. CWSCCRD+RIPL3+7+TWT269.   | <b>₽</b> DE•••   | 102107.00 40 000062.03 CE<br>102075.00 40 000162.03 CF | 101715.00<br>101716.00 |
|    |   | CWSCCRU+RIPLO+1+TWT2A                                |  | 102075.00 40 000182.03 CF                              | 101717.00              |
|    | TWT2A   | CW%CCRI,RIPL167.,6.TWT2A61.                          | eEF  | 102067.00 40 000142.03 D1                              | 101720.00              |
| 5) |   | CWSCCRU+RIPL1+4+TWT2A62.                             |  | 102060.00 40 000102.03 D2                              | 101721.00              |
|    |   | CW%CCR#+RIPLO+1+TWT2A63.                             |  | 102057.00 40 000022.03 D3                              | 101722.00              |
|    |   | CWSCCRU.RIPL3&76.TWT2A&4.                            | <b>@</b> FG+++   | 102104.00 40 000142.03 D4                              | 101723.00              |
|    |   | CW%CCR#+RIPL3+4+TWT2A65.                             |  | 102075.00 40 000102.03 D5                              | 101724.00              |
|    |   | CWSCCRU-RIPLO+1+TWT2A66.                             | AP41   | 102057.00 40 000022.03 D6                              | 101725.00              |
|    |   | CW%CCR#+RIPL164.+9+TWT2A67.                          | <b>€</b> GH•••   | 102064.00 40 000222.03 D7<br>102060.00 40 000022.03 D8 | 101726.00<br>101727.00 |
|    |   | CW%CCRU,RIPLO+1+TWT2A69.                             |  | 102057.00 40 000022.03 D9                              | 101730.00              |
|    |   | CWSCCRM.RIPL3649.TWT28                               |  | 102101.00 40 000222.03 DA                              | 101731.00              |
|    | TWT2B   | CW%CCR#,RIPL3,1,TWT2861.                             |  | 102075.00 40 000022.03 DB                              | 101732.00              |
|    |   | CW%CCR#+RIPLO+1+TWT2B62.                             |  | 102057.00 40 000022.03 DC                              | 101733.00              |
|    |   | CW%CCR#,RIPL161.,10,TWT2B63.                         | elJ  | 102061.00 40 000242.03 DD                              | 101734.00              |
|    | OF APPRICAL CONTRACTOR OF THE | CWSCCRD+RIPLO+1+TWT2864.                             | A 1V .   | 102057.00 40 000022.03 DE<br>102076.00 40 000242.03 DF | 101735.00<br>101736.00 |
|    |   | CW%CCR¤,RIPL361.,10,TWT2B65.                         | eJK  | 102076.00 40 000242.03 DP                              | 101737.00              |
|    |   | CW%CCR#,RIPL263.,2,TWT2B67.                          | ekt  | 102073.00 40 000042.03 E1                              | 101740.00              |
|    |   | CW%CCR#.RIPL1.8.TWT2B68.                             |  | 102060.00 40 000202.03 E2                              | 101741.00              |
|    |   | CW%CCR#,RIPLO+1+TWT2869+                             |  | 102057.00 40 000022.03 E3                              | 101742.00              |
| N  |   | CWSCCR#+RIPL463.+2+TWT2C                             | elm  | 102110.00 40 000042.03 E4                              | 101743.00              |
|    | TWT2C   | CW%CCRm+RIPL3+8+TWT2C61.                             |  | 102075.00 40 000202.03 E5                              | 101744.00              |
|    |   | CW%CCR#.RIPLO+1.TWT2C&2.<br>CW%CCR#.RIPL2+5.TWT2C&3. | emn  | 102057.00 40 000022.03 E6<br>102070.00 40 000122.03 E7 | 101745.00<br>101746.00 |
|    |   | CW%CCRU,RIPL1+5+TWT2C64+                             | EPH4 ● ●   | 102060.00 40 000122.03 E8                              | 101747.00              |
|    |   | CW%CCRB.RIPLO.1.TWT2C65.                             |  | 1020 <b>57.00 40</b> 000022.03 E9                      | 101750.00              |
|    |   | CW%CCR#,RIPL4,5,TWT2C66.                             | @NO  | 102105.00 40 000122.03 EA                              | 101751.00              |
|    |   | CW%CCR#.RIPL3.5.TWT2C67.                             |  | 102075.00 40 000122.03 EB                              | 101752.00              |
|    |   | CW&CCRU.RIPLO.1.TWT2C68.                             |  | 102057.00 40 000022.03 EC                              | 101753.00              |
|    |   | CW%CCR#,RIPL165.,8,TWT2C69.                          | eop  | 102065.00 40 000202.03 ED                              | 101754.00              |
|    | TWT2D   | CW%CCR#+RIPL1+2+TWT2D CW%CCR#+RIPL0+1+TWT2D61+       |  | 102060.00 40 000042.03 EE<br>102057.00 40 000022.03 EF | 101755.00<br>101756.00 |
|    | 18120   | CWSCCRU,RIPLO,I,TWIZDGI.                             | ePQ  | 102102.00 40 00022.03 EF                               | 101757.00              |
|    |   | CWSCCRD+RIPL3+2+TWT2D63+                             | A CONTRACTOR OF THE STATE OF TH | 102075.00 40 000042.03 F1                              | 101760-00              |
|    |   | CWSCCRS,RIPLO,1.TWT2D64.                             | and the second of the second o | 102057.00 40 000022.03 F2                              | 101761.00              |

AND CASE

| #   -  |          | CWSCCMBORIPLISE., 10. TWT 2065.                  | eGR • • •                               | 102082.00 40 000242.03 F3             | 101762.00 |   |
|--|----------|--|---|---------------------------------------|-----------|---|
|  |          | CWSCCR#.RIPLO.1.TWT2D86.                         |   | 102057.00 40 000022.03 F4             | 101763.00 |   |
| . 1  |          | CW%CCR#,RIPL362.,10,TWT2D67.                     | ers                                     | 102077.00 40 000242.03 F5             | 101764.00 |   |
|  |          | CW%CCR#+RIPLO+1+TWT2D&8.                         |   | 102057.00 40 000022.03 F6             | 101765.00 |   |
|  |          | CW%CCRB.RIPL2641.TWT2D69.                        | est                                     | 102074.00 40 000022.03 F7             | 101766.00 |   |
| 1  |          | CWSCCRU-RIPL1.9.TWT2E                            |   | 102060.00 40 000222.03 F8             | 101767.00 |   |
| · /  | TWT2E    | CW%CCR#,RIPLO,1,TWT2E61.                         |   | 102057.00 40 000022.03 F9             | 101770.00 |   |
| 4  |          | CWSCCRD.RIPL4641.TWT2E62.                        | eTU                                     | 102111.00 40 000022.03 FA             | 101771.00 |   |
|  |          | CW%CCR#,RIPL3,9,TWT2E63.                         |   | 102075.00 40 000222.03 FB             | 101772.00 |   |
| /  |          | CWSCCRE.RIPLO.1.TWT2E64.                         |   | 102057.00 40 000022.03 FC             | 101773.00 |   |
|  |          | CW%CCR#,RIPL261.,4,TWT2E65.                      | euv                                     | 102071.00 40 000102.03 FD             | 101774.00 |   |
|  |          | CWSCCRD.RIPL1.6.TWT2E&6.                         |   | 102060.00 40 000142.03 FE             | 101775.00 |   |
|  |          | CW%CCR#,RIPLO,1.TWT2E67.                         |   | 102057.00 40 000022.03 FF             | 101776.00 | , |
|  |          | CW%CCRD.RIPL4614.TWT2E68.                        | evw                                     | 102106.00 40 000102.04 00             | 101777.00 |   |
|  |          | CW%CCR#+RIPL3+6+TWT2E69.                         |   | 102075.00 40 000142.04 01             | 102000.00 |   |
| VINESCOND AND THE PROPERTY AND ADDRESS OF THE PARTY. |          | CW%CCRD+RIPLO+1+TWT2F                            |   | 102057.00 40 000022.04 02             | 102001.00 |   |
|  | TWT2F    | CW%CCRD+RIPL1667.TWT2F61.                        | @WX                                     | 102066.00 40 000162.04 03             | 102002.00 |   |
| ·  |          | CW%CCRm.RIPL1.3.TWT2F62.                         |   | 102060.00 40 000062.04 04             | 102003.00 |   |
|  |          | CW%CCR#+RIPLO+1+TWT2F63                          |   | 102057.00 40 000022.04 05             | 102004.00 |   |
|  |          | CW%CCRD.RIPL3667.TWT2F64.                        | exy                                     | 102103.00 40 000162.04 06             | 102005.00 |   |
|  |          | CW%CCR#+RIPL3+3+TWT2F65.                         |   | 102075.00 40 000062.04 07             | 102006.00 |   |
|  |          | CW%CCRU+RIPLO+1+TWT2F66.                         |   | 102057.00 40 000022.04 08             | 102007.00 |   |
| *  |          | CW%CCR#,RIPL163.,10,TWT2F67.                     | @YZ                                     | 102063.00 40 000242.04 09             | 102010.00 |   |
|  |          | CW%CCR#+RIPLO+1+TWT2F&8.                         |   | 102057.00 40 000022.04 0A             | 102011.00 |   |
|  |          | CW%CCR0+RIPL36310,TWT2F69.                       | eza                                     | 102100.00 40 000242.04 0B             | 102012.00 |   |
| ( <u></u>  |          | CWSCRU•RIPL5•4•0                                 |   | 102112.00 00 000100.00 00             | 102013.00 |   |
|  | •        |  |   |                                       |           |   |
|  |          |  | ,                                       |                                       |           |   |
|  | <b>e</b> | BALL MOVEMENT TEST LOOP                          | •                                       |                                       |           |   |
|  | TWT3     | CHRCCOM BMTO 15 TUTGET                           | ADALI MANGMENT TEAT                     | 102022 00 40 000242 04 00             | 100014 00 |   |
|  | 1 1 1 3  | CW%CCR=+BMTO+15+TWT3&1.                          | CRALL MOVEMENT TEST                     | 102022.00 40 000362.04 0D             | 102014.00 |   |
|  |          | CWSCCRU-BMT1-12-TWT382.                          | eprints 10-44 CHAR-                     | 102025.00 40 000302.04 0E             | 102015.00 |   |
|  |          | CW%CCR#+BMT1+12+TWT363+                          | CACTER LINES AND                        | 102025.00 40 000302.04 OF             | 102016.00 |   |
|  |          | CW%CCR#+BMT1+12+TWT364.<br>CW%CDSC#+BMT1+12+TWT3 | CALL CHARACTERS                         | 102025.00 40 000302.04 10             | 102017.00 |   |
| · · ·  | <b>A</b> | CMMCD2CH10W1111251M12                            | @LOOP                                   | 102025.00 60 000302.04 OC             | 102020.00 |   |
|  |          |  |   |                                       |           |   |
| •  | •        | TEST FOUR  |   |                                       |           |   |
|  |          | TEST FOOR  | .,, ., ., ., ., ., ., ., ., ., ., ., ., |                                       |           |   |
|  | ě        | EXECUTE THIS CONTROL WORD FOR                    | R AN ALL                                |                                       |           |   |
| •  |          | CHARACTER PRINT                                  |   |                                       |           |   |
|  | ě        |  |   |                                       |           |   |
|  | •        |  |   |                                       |           |   |
| *  | •        | CWSCRU.ALLC,27,0                                 |   | 102116.00 00 000660.00 00             | 102021.00 |   |
|  | (0)      |  | 1                                       |                                       |           |   |
|  |          |  |   |                                       |           |   |
|  |          |  |   |                                       |           |   |
|  |          |  |   |                                       |           |   |
|  |          |  |   | · · · · · · · · · · · · · · · · · · · |           |   |
|  |          |  |   |                                       |           |   |

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|                 | 9   | TVOCUMITED TECT OATA                     |                                |   |            |  |
|-----------------|---|--|--------------------------------|---|------------|--|
|                 | •   | TYPEWRITER TEST DATA                     |                                |   |            |  |
|                 | <b> </b>  | DR%BU • 64 • 8 m • 3                     | ADECERVE 2 LOC                 | 9.00                                    |            | 102022 00                                |
|                 | BMT1  | \$16¤DD\$8U+8+8¤+FD+70+2F+60+3F+50+4F+40 | @RESERVE 3 LOC.<br>@CR.8BOJSRK | 3.00                                    | 375        | 102022.00<br>102025.00                   |
| 1               |   |  |                                |   | 160        | 102025.10                                |
| 1               |   |  |                                |   | 057        | 102025.20                                |
|                 |   |  |                                |   | 140<br>077 | 102025•30<br>102025•40                   |
| •               |   |  |                                |   | 120        | 102025.50                                |
| ***             |   |  |                                |   | 117        | 102025.60                                |
| <b>)</b>        |   | %16mDD%BU,8,8m,5F,30,6F,20,27,68,37,58   | eZC7 4FW                       |   | 100<br>137 | 102025.70<br>102026.00                   |
|                 |   | #18HDD#H01840H1311304011420421466131130  | 6201 414                       |   | 060        | 102026-10                                |
|                 |   |  |                                |   | 157        | 102026.20                                |
| 4               |   |  |                                |   | 040        | 102026.30                                |
| 1               |   |  |                                | ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) | 047<br>150 | 102026•40<br>102026•50                   |
| 1               |   |  |                                |   | 067        | 102026-60                                |
|                 |   |  |                                |   | 130        | 102026.70                                |
|                 |   | %16mDD%BU+8+8m+47+48+57+38+67+28+77+71   | @NOVG3 + 8                     |   | 107        | 102027.00                                |
| <u></u>         |   |  |                                |   | 110<br>127 | 102027.10<br>102027.20                   |
| , C.            |   |  |                                | 7                                       | 070        | 102027.30                                |
|                 |   |  |                                |   | 147        | 102027-40                                |
| 7               |   |  |                                |   | 050<br>167 | 102 <b>027.5</b> 0<br>102 <b>027.6</b> 0 |
|                 |   |  |                                |   | 161        | 102027.70                                |
|                 |   | %16mDD%BU.8.8m.76.61.66.51.56.41.46.31   | e-03SVKNC                      |   | 166        | 102030.00                                |
| (               |   |  |                                |   | 141<br>146 | 102030:10<br>102030:20                   |
|                 |   |  |                                |   | 121        | 102030.30                                |
| (               |   |  |                                |   | 126        | 102030.40                                |
| 1 2             |   |  |                                |   | 101        | 102030.50                                |
|                 |   |  |                                |   | 106<br>061 | 102030.60<br>102030.70                   |
|                 |   | \$16mDD\$8U+8+8m+36+21+26+69+6E+59+5E+49 | @F&/A7WZO                      |   | 066        | 102031-00                                |
|                 |   |  |                                |   | 041        | 102031.10                                |
| 3 <b>1</b>      |   |  |                                |   | 046<br>151 | 102031.20<br>102031.30                   |
| ·               | 100 to |  |                                |   | 156        | 102031.40                                |
|                 |   |  |                                |   | 131        | 102031-50                                |
| 18              |   |  |                                |   | 136<br>111 | 102031.60<br>102031.70                   |
| 1               |   | %16mDD%BU+8+8m+4E+39+3E+29+2E+00+00+FD   | eRGJ B ,CR                     |   | 116        | 102032.00                                |
| <u> </u>        |   |  |                                |   | 071        | 102032.10                                |
| 10              |   |  |                                |   | 076<br>051 | 102032.20<br>102032.30                   |
|                 |   |  |                                |   | 056        | 102032.40                                |
| <b>\</b> _      |   |  |                                |   | 000        | 102032.50                                |
| 1 4             |   |  |                                |   | 000<br>375 | 102032.60<br>102032.70                   |
| \ <u></u>       |   | %16mDD%BU,8,8m,74,2B,64,3B,54,4B,44,5B   | e. 2HUPMX                      |   | 164        | 192033.00                                |
| ٩               |   |  |                                | `                                       | 053        | 102033.10                                |
|                 |   |  |                                | 7                                       | 144        | 102033-20                                |
| ् <b>(</b><br>इ |   |  |                                |   | 073<br>124 | 102033+30<br>102033+40                   |
| 4               |   |  |                                |   | 113        | 102033-50                                |
|                 |   |  |                                |   | 104        | 102033-60                                |
| ٠, ١            |   | %16mDD%8U,8,8m,34,6B,24,23,6C,33,5C,43   | @E5 6DYL                       |   | 133<br>064 | 102033.70<br>102034.00                   |

The second of th

|   | 153        | 102034.10              |
|---|------------|------------------------|
|   | 044        | 102034.20              |
|   | 043        | 102034+30              |
|   | 154        | 102034.40              |
|   | 063        | 102034.50              |
|   | 134        | 102034 • 60            |
|   | 103        | 102034.70              |
| %16mDD%BU+8+8m+4C+53+3C+63+2C+73+72+2D @QTI1A99A  | 114        | 102035.00              |
|   | 123        | 102035.10              |
|   | 074        | 102035.20              |
|   | 143        | 102035.30              |
|   | 054        | 102035.40              |
|   | 163        | 102035.50              |
|   | 162        | 102035-60              |
| M14   | 055        | 102035.70              |
| %16mDD%BU+8+8m+62+3D+52+4D+42+5D+32+6D @11TQLYD6  | 142        | 102036.00              |
|   | 075        | 102036.10              |
|   | 122        | 102036.20              |
|   | 115        | 102036.30              |
|   | 102        | 102036+40              |
|   | 135        | 102036.50              |
|   | 062        | 102036.60<br>102036.70 |
| %16mDD%BU+8+8m+22+25+6A+35+5A+45+4A+55 @ 5EXMPU   | 155<br>042 | 102037.00              |
| ALUMIUMDUJQIUMIZZIZJIDAIJJIJAIHJIHAIJJ @ JEAMPU   | 045        | 102037.10              |
|   | 152        | 102037.20              |
|   | 065        | 102037.20              |
|   | 132        | 102037.40              |
| (   | 105        | 102037.50              |
|   | 112        | 102037.60              |
|   | 125        | 102037.70              |
| %16mDD%BU+8+8m+3A+65+2A+75+00+00+FC+FC @H2 BS+BS  | 072        | 102040.00              |
| A TONDO TO TO THE TOTAL TO THE | 145        | 102040.10              |
|   | 052        | 102040.20              |
|   | 165        | 102040.30              |
|   | 000        | 102040.40              |
|   | 000        | 102040.50              |
|   | 374        | 102040.60              |
|   | 374        | 102040.70              |
|   |            |                        |
| BST1 DR%BU,64,80,3  |            | 102041.00              |
| %16pDD%BU.8,8p.FD.53.00,00.50.00,3C.50  | 375        | 102044.00              |
|   | 123        | 102044.10              |
|   | 000        | 102044.20              |
|   | 000        | 102044.30              |
|   | 120        | 102044.40              |
|   | 000        | 102044.50              |
|   | 074        | 102044.60              |
|   | 120        | 102044.70              |
| %16¤DD%BU+8+8¤+FC+FC+FC+FC+FC+3A+3C @ HI  | 374        | 102045.00              |
|   | 374        | 102045.10              |
| 15  | 374        | 102045.20              |
|   | 374        | 102045 • 30            |
|   | 374        | 102045.40              |
|   | 374        | 102045.50              |
|   | 072        | 102045.60              |
| ##4##DD###IL############################  | 074        | 102045.70              |
| %16□DD%8U+8+8□+00+00+00+00+2C+00+00 € A   | 000        | 102046.00              |
|   | 000        | 102046.10              |
|   | 000        | 102046.20              |
|   | 000        | 102046.30              |
|   | 000        | 102046.40              |
|   | 054        | 102046-50              |
|   | 000        | 102046.60              |
| %16pd%8U9898BU9898090900900900  | 000        | 102046•70              |
| 16dD0%BU989BU989BU900000900900900900  | 000        | 102047.00              |

| (दि)           |  | 000        | 102047.10                                |
|----------------|--|------------|--|
| !<br>          |  | 000        | 102047.20<br>102047.30                   |
| <b>!</b>       |  | 000        | 102047.40                                |
|                |  | 000        | 102047-50                                |
|                |  | 000        | 102047.60                                |
| •              | %16pDD%BU.8.8p.00.52.34.50.52.74.FC.FC @TEST   | 000        | 102047.70<br>102050.00                   |
|                |  | 122        | 102050-10                                |
|                |  | 064        | 102050+20                                |
|                |  | 120        | 102050-30                                |
| (              |  | 122<br>164 | 102050•40<br>102050•50                   |
|                |  | 374        | 102050.60                                |
|                |  | 374        | 102050.70                                |
| (              | %16¤DD%BU+8+8¤+FC+FC+FC+FC+FC+FC+FC  | 374        | 102051.00                                |
| 1              |  | 374<br>374 | 102051.10                                |
|                |  | 374        | 102051.30                                |
|                |  | 374        | 102051+40                                |
|                |  | 374        | 102051.50                                |
| 1              |  | 374<br>374 | 102051.60<br>102051.70                   |
|                | %16mDD%BU.8.8m.FC.FC.FC.FC.OF.OD.11 @ BAC  | 374        | 102052.00                                |
|                |  | 374        | 102052+10                                |
|                |  | 374        | 102052-20                                |
|                |  | 374        | 102052.30                                |
|                |  | 374<br>017 | 102052.40                                |
| <b>\</b>       |  | 015        | 102052.60                                |
| 1              |  | 021        | 102052.70                                |
| , i            | %16mDD%BU+8+8m+81+91+8B+0D+11+15+00+00 @KSPACE   | 201        | 102053.00                                |
|                |  | 221<br>213 | 102053·10<br>102053·20                   |
|                |  | 015        | 102053.20                                |
|                |  | 021        | 102053.40                                |
|                |  | 025        | 102053.50                                |
| ,              |  | 000        | 102053-60                                |
| 1              | RIPL DR%BU,64,8m,3   | 000        | 102053.70<br>102054.00                   |
| 1              | RIPLO %16HDD%BU,8,8H,FC,00,00,FC,FC,00,00,FD @CARR-RET   | 374        | 102057.00                                |
|                |  | 000        | 102057.10                                |
|                |  | 000        | 102057.20                                |
| (              |  | 374<br>374 | 102057.30<br>102057.40                   |
|                |  | 000        | 102057.50                                |
| 1              |  | 000        | 102057.60                                |
| (              |  | 375        | 102057.70                                |
| 1              | RIPL1 %16mDD%BU,8,8m,2D,2F,31,33,35,37,39,3B @ABCDEFGH   | 055<br>057 | 10 <b>2060.0</b> 0<br>10 <b>2060.1</b> 0 |
| }              |  | 061        | 102060.20                                |
| 15             |  | 063        | 102060.30                                |
| 14             |  | 065        | 102060.40                                |
|                |  | 067<br>071 | 102060.50<br>102060.60                   |
| . 17           |  | 073        | 102060.70                                |
| · <b>(</b>     | %16gDD%8U+8,8g,3D,3F,41,43,45,47,49,48 @IJKLMNOP   | 075        | 102061.00                                |
| (              |  | 077        | 102061.10                                |
| , <del>'</del> |  | 101<br>103 | 102061.20<br>102061.30                   |
| J.             | 4  | 105        | 102061.40                                |
| (<br>1         |  | 107        | 102061.50                                |
| 4              |  | 111        | 102061.60                                |
|                | %16mDD%BU,8,8m,4D,4F,51,53,55,57,59,5B @QRSTUVWX   | 113<br>115 | 102061.70                                |
|                | YAAO 1 C MAAO 1 C MAAO 1 C M C   | 117        | 102062.00<br>102962.10                   |
|                | en de la composition de la composition<br>La composition de la | 4.4.7      | 102962-10                                |

| 1   |  |                  | 121               | 102062.20              |  |
|-----|--|------------------|-------------------|------------------------|--|
| !   |  |                  | 123               | 102062.30              |  |
| •   |  |                  | 125               | 102062.40              |  |
|     |  |                  | 127               | 102062.50              | The state of the s |
|     |  |                  | 131               | 102062.60              |  |
|     | %16uDD%BU,8,8u,5D,5F,2D,2F,31,33,35,37             | @YZABCDEF        | 133<br>135        | 102062.70<br>102063.00 | V. 10 W. I   |
| •   | 7 TOUDONGO 40 H 20 H | e readcher :     | 137               | 102063.10              |  |
|     |  |                  | 055               | 102063.20              |  |
|     |  |                  | 057               | 102063.30              |  |
|     | 1  |                  | 061               | 102063.40              |  |
|     |  |                  | 063               | 102063-50              |  |
|     |  |                  | 065               | 102063.60              | ,  |
|     |  |                  | 067               | 102063.70              |  |
|     | %16mDD%BU,8,8m,39,3B,3D,3F,41,43,45,47             | @GHIJKLMN        | 071<br>073        | 102064.00              |  |
|     |  |                  | 075               | 102064.10<br>102064.20 |  |
|     |  |                  | 077               | 102064.30              |  |
|     |  |                  | 101               | 102064.40              |  |
|     |  |                  | 103               | 102064.50              |  |
|     |  |                  | 105               | 102064.60              |  |
|     |  |                  | 107               | 102064.70              |  |
|     | %16mDD%BU,8,8m,49,4B,4D,4F,51,53,55,57             | @OPQR STUV       | 111               | 102065.00              |  |
|     |  |                  | 113               | 102065.10              |  |
|     |  |                  | 115<br>117        | 102065.30              |  |
|     |  |                  | 121               | 102065.40              |  |
|     |  |                  | 123               | 102065.50              |  |
|     |  |                  | 125               | 102065.60              |  |
|     |  |                  | 127               | 102065.70              |  |
|     | %16mDD%BU+8+8m+59+5B+5D+5F+2D+2F+31+33             | @WXYZ ABCD       | 131               | 102066.00              |  |
|     | Name and Add Add Add Add Add Add Add Add Add A     |                  | 133               | 102066.10              |  |
|     |  |                  | 135               | 102066.20              |  |
|     | 1  |                  | 137               | 102066.30              |  |
|     |  |                  | 055<br>057        | 102066.40              |  |
|     |  |                  | 061               | 102066.60              |  |
|     |  |                  | 063               | 102066.70              |  |
|     | %16mDD%BU,8,8m,35,37,39,3B,3D,3F,41,43             | @EFGHIJKL        | 065               | 102067.00              |  |
|     |  |                  | 067               | 102067.10              |  |
|     |  |                  | 071               | 102067-20              |  |
|     |  |                  | <u>073</u><br>075 | 102067.30<br>102067.40 |  |
|     |  |                  | 077               | 102067.50              |  |
|     |  |                  | 101               | 102067.60              |  |
|     |  |                  | 103               | 102067.70              |  |
|     | RIPL2 %16mDD%BU,8,8m,45,47,49,4B,4D,4F,51,53       | @MNOPQRST        | 105               | 102070.00              |  |
|     |  |                  | 107               | 102070.10              |  |
|     |  |                  | 111               | 102070.20              |  |
|     |  |                  | 113<br>115        | 102070.30<br>102070.40 |  |
|     | 5  |                  | 117               | 102070.50              |  |
|     | δ΄   |                  | 121               | 102070.60              |  |
|     |  |                  | 123               | 102070.70              |  |
| • 1 | 416 mDD%BU+8+8 m+55+57+59+5B+5D+5F+2D+2F           | <b>@UVWXYZAB</b> | 125               | 102071.00              | - 1  |
|     | Y  |                  | 127               | 102071.10              |  |
| •   |  |                  | 131               | 102071.20              | (N)<br>(1)<br>(1)  |
|     | §*   |                  | 133               | 102071.30              |  |
|     |  |                  | 135<br>137        | 102071.40              |  |
|     |  |                  | 055               | 102071.60              |  |
|     | <b>5</b>   |                  | 057               | 102071.70              |  |
|     | 4 %16mDD%BU.8,8m.31,33.35,37,39.3B.3D.3F           | @CDEFGHIJ        | 061               | 102072.00              | >  |
|     |  |                  | 063               | 102072 • 10            |  |
|     |  |                  | 065               | 102072.20              |  |
| į.  |  |                  | 067               | 102072-30              | The state of the s |
|     |  |                  |                   |                        |  |

| •  | The state of the s | 071 102072.40<br>073 102072.50 |             |
|----|--|--------------------------------|-------------|
|    |  | 075 102072+60                  |             |
|    | %16mDD%BU,8,8m,41,43,45,47,49,4B,4D,4F @KLMNOPQR   | 077 102072.70<br>101 102073.00 |             |
|    | #IODDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD  | 103 102073.10                  |             |
|    |  | 105 102073.20                  |             |
|    |  | 107 102073•30<br>111 102073•40 |             |
|    | •  | 113 102073.50                  |             |
|    |  | 115 102073.60<br>117 102073.70 |             |
|    | %16mDD%BU+8+8m+51+53+55+57+59+5B+5D+5F @STUVWXYZ   | 121 102074.00                  | 7           |
| ·  |  | 123 102074.10                  |             |
|    |  | 125 102074•20<br>127 102074•30 |             |
|    |  | 131 102074.40                  |             |
|    |  | 133 102074-50                  |             |
|    |  | 135 102074.60<br>137 102074.70 |             |
|    |  |                                |             |
|    | RIPL3 %16mDD%BU+8+8m+2F+31+33+35+37+39+3B+3D @BCDEFGHI   | 057 102075.00<br>061 102075.10 |             |
|    |  | 061 102075.10<br>063 102075.20 |             |
|    |  | 065 102075.30                  |             |
|    |  | 067 102075•40<br>071 102075•50 |             |
|    |  | 073 102075.60                  |             |
|    | %16mDD%BU+8+8m+3F+4]+43+45+47+49+4B+4D @JKLMNOPQ   | 075 102075.70<br>077 102076.00 |             |
|    |  | 101 102076•10                  |             |
|    |  | 103 102076.20                  |             |
|    |  | 105 102076•30<br>107 102076•40 |             |
|    |  | 111 102076.50                  |             |
|    |  | 113 102076-60                  |             |
|    | %16=DD%BU+8+8=+4F+51+53+55+57+59+5B+5D @RSTUVWXY   | 115 102076.70<br>117 102077.00 |             |
|    |  | 121 102077.10                  |             |
|    |  | 123 102077•20<br>125 102077•30 |             |
|    |  | 127 102077.40                  |             |
|    |  | 131 102077.50                  |             |
|    |  | 133 102077.60<br>135 102077.70 |             |
|    | %16mDD%BU+8+8m+5F+2D+2F+31+33+35+37+39 @ZABCDEFG   | 137 102100.00                  |             |
|    |  | 055 102100•10<br>057 102100•20 |             |
|    | 18   | 061 102100.30                  |             |
|    |  | 063 102100.40<br>065 102100.50 |             |
|    | 15   | 067 102100.60                  | <u> </u>    |
|    | 14   | 071 102100.70                  |             |
|    | %16mDD%BU+8,8m+3B+3D+3F+41+43+45+47+49 @HIJKLMNO   | 073 102101.00<br>075 102101.10 |             |
|    | 11   | 077 102101.20                  |             |
|    |  | 101 102101.30<br>103 102101.40 |             |
|    | {  | 105 102101.50                  |             |
|    |  | 107 102101.60                  |             |
|    | %16¤DD%BU+8+8¤+4B+4D+4F+51+53+55+57+59 @PQRSTUVW   | 111 102101.70<br>113 102102.00 |             |
|    | 4  | 115 102102.10                  | <del></del> |
|    |  | 117 102102.20<br>121 102102.30 |             |
|    | Angle of the second of the<br>Angle of the second of the<br>Angle of the second of the   | 121 102102.30                  |             |
| i. | and the control of th |                                |             |

|  |  | 125               | 102102.50  | 3  |
|--|--|-------------------|--|--|
|  |  | 127<br>131        | 102102.60<br>102102.70                           | · · · · · · · · · · · · · · · · · · ·  |
| %16mDD%BU+8+8m+58+5D+5F+2D+2F+31+33+35                           | @XYZABCDE                                | 133               | 102103.00  |  |
|  |  | 135<br>137        | 102103.10<br>102103.20                           |  |
|  |  | 055               | 102103.30  |  |
|  |  | 057               | 102103-40  |  |
|  |  | 061               | 102103.50  |  |
|  |  | 063<br>065        | 102103.60<br>102103.70                           |  |
| %16nDD%BU+8+8U+37+39+3B+3D+3F+41+43+45                           | @FGHI JKLM                               | 067               | 102104.00  |  |
|  |  | 071               | 102104.10  | •  |
|  |  | 073<br>075        | 102104.20<br>102104.30                           |  |
|  | _  | 077               | 102104.40  |  |
|  |  | 101               | 102104.50  |  |
|  |  |                   | 102104-60  |  |
| RIPL4 %16mDD%BU,8,8m,47,49,4B,4D,4F,51,53,55                     | enoporstu                                | 105<br>107        | 102104.70<br>102105.00                           |  |
| RIPLA MICHOUMBOIGHOUS 1947 147 147 147 147 147 147 147 147 147 1 | ENOT GROID                               | 111               | 102105.10  |  |
|  |  | 113               | 102105.20  |  |
|  |  | 115<br>117        | 102105.30<br>102105.40                           |  |
|  |  | 121               | 102105.50  |  |
|  |  | 123               | 102105.60  |  |
|  |  | 125               | 102105.70  |  |
| %16¤DD%BU,8,8¤,57,59,5B,5D,5F,2D,2F,31                           | @VWXYZABC                                | 127<br>131        | 102106.00<br>102106.10                           |  |
|  |  | 133               | 102106.20  |  |
|  |  | 135               | 102106.30  |  |
|  |  | 137<br>055        | 102106.40  |  |
|  |  | 057               | 102106.50  |  |
|  |  | 061               | 102106.70  |  |
| %16mDD%BU.8.8m.33.35.37.39.38.3D.3F.41                           | @DEFGHIJK                                | 063               | 102107.00  |  |
|  |  | 065<br>067        | 102107.10<br>102107.20                           |  |
|  |  | 071               | 102107-30  |  |
|  |  | 073               | 102107.40  |  |
|  |  | 075<br>077        | 102107.50<br>102107.60                           |  |
|  |  | 101               | 102107.70  |  |
| %16mDD%BU,8,8m,43,45,47,49,48,4D,4F,51                           | <u>elmnopars</u>                         | 103               | 102110.00  |  |
|  |  | 105               | 102110.10  |  |
|  |  | 107<br>111        | 102110.20<br>102110.30                           |  |
|  |  | 113               | 102110.40  |  |
|  |  | 115               | 102110-50  |  |
|  |  | 117               | 102110.60<br>102110.70                           |  |
| %16¤DD%BU+8+8¤+53+55+57+59+58+5D+5F+2D                           | eTUVWXYZA                                | 121               | 102111.00  |  |
| 1  |  | 125               | 102111-10  |  |
|  |  | 127               | 102111-20  |  |
|  |  | 131<br>133        | 102111.30<br>102111.40                           |  |
|  |  | 135               | 102111-50  |  |
|  |  | 137               | 102111.60  |  |
| 0 t D t T  | aco. Tute te                             | 055               | 102111.70  |  |
| RIPL5 %16mDD%BU+8+8m+FD+53+3B+3D+51+00+3D+51                     | ecR, THIS IS                             | <u>375</u><br>123 | 102112.00<br>102112.10                           |  |
| ·  |  | 073               | 102112.20  |  |
|  |  | 9 9 075           | 102112-30  |  |
|  |  | 121               | 102112.40<br>102112.50                           | A A A A A A A A A A A A A A A A A A A  |
|  |  |                   | 102112.60  | है।<br>  |
|  | en e |                   | jana <del>ngalangan landan Tinda</del> (Tinda Co | and the second s |

| 1        | %16mDD%BU+8+8m+53+3B+35+00+35+47+33+00 @THE END  | 121 102112.70<br>123 102113.00 |
|----------|--|--------------------------------|
| <u>,</u> |  | 073 102113.10                  |
|          |  | 065 102113.20<br>000 102113.30 |
|          |  | 065 102113.40                  |
| •        |  | 107 102113.50                  |
|          |  | 063 102113.60<br>000 102113.70 |
|          | %16¤DD%BU+8+8¤+49+37+00+4F+3D+4B+43 @OF RIPPL  | 111 102114.00                  |
|          |  | 067 102114-10                  |
| 1        |  | 000 102114.20<br>117 102114.30 |
|          |  | 075 102114+40                  |
|          |  | 113 102114.50<br>113 102114.60 |
|          |  | 103 102114.70                  |
| ,        | %16gDD%BU,8.8g,35,00,53,35,51,53,74,74 @E TEST   | 065 102115.00                  |
|          |  | 000 102115+10                  |
|          |  | 123 102115•20<br>065 102115•30 |
|          |  | 121 102115+40                  |
|          |  | 123 102115.50                  |
|          | •  | 164 102115.60<br>164 102115.70 |
|          |  | 104 102123010                  |
|          | CNOP   |                                |
|          | RED ALPHABET   |                                |
|          |  |                                |
| I        | ALLC DR%BU+64+8m+%3m 3.00 3.00 3.00  | 102116.00                      |
| ·        | #19HDD#BO#8#8H#FD#OC#OD#OC#OF#10#11#12   | 375 102121.00<br>014 102121.10 |
|          |  | 015 102121-20                  |
|          |  | 016 102121.30<br>017 102121.40 |
|          |  | 020 102121.50                  |
|          |  | 021 102121-60                  |
| ;        | \$16pDD%RU+8+8p+13+14+15+16+17+18+19+1A  | 022 102121.70<br>023 102122.00 |
|          | *1000000010111111111111111111111111111   | 024 102122.10                  |
|          |  | 025 102122.20                  |
|          |  | 026 102122+30<br>027 102122+40 |
|          |  | 030 102122+50                  |
| ,        | ·  | 031 102122.60                  |
|          | %16mDD%8U.8.8m.1B.1C.1D.1F.1F.80.81.82   | 032 102122.70<br>033 102123.00 |
|          | 3  | 034 102123.10                  |
|          |  | 035 102123.20<br>036 102123.30 |
|          | 5  | 037 102123.40                  |
|          |  | 200 102123.50                  |
|          | _  | 201 102123.60<br>202 102123.70 |
| - 1      | %16DD%BU,8,8D,83,84,85,86,87,88,89,8A  | 203 102124.00                  |
|          |  | 204 102124-10                  |
| •        |  | 205 102124•20<br>206 102124•30 |
|          |  | 207 102124-40                  |
|          | ·<br>5   | 210 102124.50<br>211 102124.60 |
|          |  | 212 102124.70                  |
| i        | %16mDD%BU+8,8m+8B+8C+8D+8E+8F+90+91+92   | 213 102125.00                  |
|          | Contraction of the Contraction o | 214 102125.10<br>215 102125.20 |
| <u> </u> | ingen en state de la companya de la<br>Mangana de la companya de la company  | 215 102125.20                  |

|              |  | 216 102125.30                  |                              |
|--------------|--|--------------------------------|------------------------------|
| :<br>1       |  | 217 102125.40                  | ,                            |
|              |  | 220 102125•50<br>221 102125•60 |                              |
|              |  | 222 102125.70                  |                              |
|              | %16mDD%BU.8.8m.93.94.95.96.97.98.99.9A   | 223 102126.00                  |                              |
| •            |  | 224 102126 • 10                |                              |
|              |  | 225 102126•20<br>226 102126•30 |                              |
|              |  | 227 102126.40                  |                              |
|              |  | 230 102126.50                  |                              |
|              |  | . 231 102126.60                |                              |
|              | %16nDD%BU.8.8n.98.9C.9D.9E.9F.00.00  | 232 102126•70<br>233 102127•00 |                              |
|              | # 10500#B0 10 10 10 10 10 10 10 10 10 10 10 10 10  | 234 102127•10                  |                              |
| 1            |  | 235 102127-20                  |                              |
| : 1          |  | 236 102127.30                  |                              |
|              |  | 237 102127-40                  |                              |
|              |  | 000 102127.50<br>000 102127.60 |                              |
|              |  | 000 102127.70                  |                              |
| ;<br>, , , , |  |                                |                              |
|              | BLACK ALPHABET   |                                |                              |
| ·            | %16mDD%BU,8,8m,FD,2C,2D,2E,2F,30,31,32   | 375 102130.00                  |                              |
| (            |  | 054 102130.10                  |                              |
|              |  | 055 102130+20                  |                              |
|              |  | 056 102130•30<br>057 102130•40 |                              |
|              |  | 060 102130-50                  |                              |
| į.           |  | 061 102130+60                  |                              |
| ſ            | M14-DDWDIL B 0- 00 04 05 04 07 00 00 04  | 062 102130.70                  |                              |
| į            | %16mDD%8U,8,8m,33,34,35,36,37,38,39,3A   | 063 102131.00<br>064 102131.10 |                              |
| ٠            |  | 065 102131.20                  |                              |
| 1            |  | 066 102131.30                  |                              |
| į.           |  | 067 102131.40<br>070 102131.50 |                              |
|              |  | 071 102131.60                  |                              |
|              |  | 072 102131.70                  |                              |
| 4            | %16mDD%BU+8+8m+3B+3C+3D+3E+3F+40+41+42   | 073 102132.00                  |                              |
| 1            |  | 074 102132.10<br>075 102132.20 |                              |
|              |  | 076 102132.30                  |                              |
| •            |  | 077 102132.40                  |                              |
| 1            |  | 100 102132.50<br>101 102132.60 |                              |
| <b>\</b>     |  | 102 102132.70                  |                              |
| . 11         | 8 %16 \pi DD \% BU \ 8 \ 8 \ B \ 9 \ 4 3 \ 9 \ 4 4 \ 9 \ 4 5 \ 4 6 \ 9 \ 4 7 \ 9 \ 4 8   | 103 102133.00                  |                              |
| 1            |  | 104 102133•10                  |                              |
|              | 5  | 105 102133•20<br>106 102133•30 |                              |
| ľ            | 0  | 107 102133.40                  |                              |
|              |  | 110 102133.50                  | <u> </u>                     |
| 1            | v ·  | 111 102133.60<br>112 102133.70 |                              |
| 1            | %16mDD%BU+8+8m+4B+4C+4D+4E+4F+50+51+52   | 112 102133.70<br>113 102134.00 | r'                           |
| ı            |  | 114 102134.10                  |                              |
| ·            | ٩  | 115 102134.20                  |                              |
| Į            |  | 116 102134.30<br>117 102134.40 |                              |
| ١,           | <b>5</b>   | 120 102134.50                  |                              |
| 1            | 4  | 121 102134+60                  |                              |
|              | %16mDD%BU+8+8m+53+54+55+56+57+58+59+5A   | 122 102134.70                  |                              |
|              | \  | 123 102135•00<br>124 102135•10 |                              |
| le" •        | e <b>de de de la companya de la compa</b><br>La companya de la comp | 467 AUG18761V                  | and the second of the second |

| and the second of the second o | Maria de la companya de la companya<br>La companya de la companya del companya de la companya de la companya del companya de la companya   | 125               | 102135+28<br>102135+30 |  |
|--|--|-------------------|------------------------|--|
|  |  | 126<br>127        | 102135.40              |  |
| '  |  | 130               | 102135.50              |  |
|  |  | 131<br>132        | 102135.60<br>102135.70 |  |
| •  | %16mDD%8U+8+8m+5B+5C+5D+5E+5F+00+00  | 133               | 102136.00              |  |
|  |  | 134               | 102136.10              |  |
|  |  | 135<br>136        | 102136.20<br>102136.30 |  |
|  |  | 137               | 102136.40              |  |
|  |  | 000               | 102136.50              |  |
|  |  | 000               | 102136.60              |  |
| ŧ  | •  | 000               | 102136.70              |  |
|  | RED NUMBERS & SPECIALS   |                   |                        |  |
|  | %16¤DD%RU•8•8¤•FD•01•02•03•04•05•06•07   | 375               | 102137.00              |  |
|  |  | 001               | 102137-10              |  |
|  |  | 002               | 102137-20              |  |
| A.   |  | 003               | 102137.30<br>102137.40 |  |
| ſ  |  | 004<br>005        | 102137.50              |  |
|  |  | 006               | 102137.60              |  |
| ,  |  | 007               | 102137.70              |  |
|  | %16mDD%BU+8+8m+08+09+0A+0B+A0+A1+A2+A3   | 010<br>011        | 102140.00<br>102140.10 |  |
| 1  |  | 012               | 102140.20              |  |
| (  |  | 013               | 102140.30              |  |
|  |  | 240               | 102140-40              |  |
| ,  |  | 241<br>242        | 102140.50<br>102140.60 |  |
| ,  |  | 243               | 102140.70              |  |
|  | %16nDD%BU+8+8n+A4+A5+A6+A7+A8+A9+AA+AB   | 244               | 102141.00              |  |
| (  |  | 245<br>246        | 102141.10<br>102141.20 |  |
| 1  |  | 247               | 102141.30              |  |
| { ,  |  | 250               | 102141-40              |  |
| (  |  | 251<br>252        | 102141.50<br>102141.60 |  |
| · 1  |  | 253               | 102141.70              |  |
|  | %16mDD%BU+8+8m+AC+AD+AE+AF+B0+B1+B2+B3   | 254               | 102142.00              |  |
| . {  |  | 255<br>254        | 102142.10<br>102142.20 |  |
| ŧ  |  | 256<br>257        | 102142.30              |  |
|  |  | 260               | 102142.40              |  |
|  |  | 261               | 102142.50              |  |
|  |  | 262<br>263        | 102142.60<br>102142.70 |  |
| 1  | %16mDD%BU+8+8m+B4+B5+B6+B7+00+00+00  | 264               | 102143.00              |  |
|  |  | 265               | 102143.10              |  |
| 1.4  |  | <u>266</u><br>267 | 102143.20<br>102143.30 |  |
| (  | · · · · · · · · · · · · · · · · · · ·  | 000               | 102143.40              |  |
|  |  | 000               | 102143.50              |  |
| 1 Y  |  | 000               | 102143.60<br>102143.70 |  |
| · (  |  | 000               | 102143010              |  |
| ٩  | BLACK NUMBERS & SPECIALS   |                   |                        |  |
|  | %16mDD%8U,8,8m,FD,20,21,22,23,24,25,26   | 375               | 102144.00              |  |
| Į  |  | 040               | 102144.10              |  |
| · · · · · · · · · · · · · · · · · · ·  |  | 041               | 102144.20              |  |
| :  |  | 042               | 102144.30<br>102144.40 | and the second s |
|  |  | 044               | 102144+50              |  |
|  | inger various and a second control of the se |                   |                        | عاد العاد  |

|  | the state of the s | 045   | 102144.60              | 40    |
|--|--|---|------------------------|-------|
|  |  | 046   | 102144.70              |       |
| 1  | NAT  | 047   | 102145.00              |       |
|  | %16mDD%BU+8+8m+27+28+29+2A+2B+60+61+62   | 050   | 102145.10              |       |
| . ' · · · <del> · · · · · · · · · · · · · · </del> |  | 051   | 102145.20              |       |
| T  |  | 052   | 102145.30              |       |
|  |  | 053   | 102145.40              |       |
| . · · ·  |  |   |                        |       |
|  |  | 140   | 102145.50              |       |
|  |  | 141   | 102145.60              |       |
|  |  | 142   | 102145.70              |       |
| 1  | %16mDD%BU,8,8m,63,64,65,66,67,68,69,6A   | 143   | 102146.00              |       |
| 1 .  | ,  | 144   | 102146.10              |       |
| -  |  | 145   | 102146.20              |       |
| , t '  |  | 146   | 102146.30              |       |
|  |  | 147   | 102146.40              |       |
| 1  |  | 150   | 102146.50              |       |
|  |  | 151   | 102146.60              |       |
|  |  | 152   | 102146.70              |       |
|  | %16mDD%BU+8,8m+6B+6C+6D+6E+6F+70+71+72   | 153   | 102147.00              |       |
|  |  | 154   | 102147.10              |       |
|  |  | 155   | 102147.20              |       |
|  |  | 156   | 102147.30              |       |
| 1  |  | 157   | 102147.40              |       |
| ~  |  |   |                        |       |
|  |  | 160   | 102147.50<br>102147.60 |       |
| *  |  | 161   |                        |       |
|  | #14-DD##!! 0 0- 76 74 75 74 77 00 00 00  | 162   | 102147.70              |       |
|  | %16mDD%BU+8,8m,73,74,75,76,77,00,00  | 163   | 102150.00              |       |
|  |  | 164   | 102150-10              |       |
| 1 -  |  | 165   | 102150.20              |       |
|  |  | 166   | 102150.30              |       |
| 1  |  | 167   | 102150.40              | •     |
| <u> </u>   |  | 000   | 102150.50              |       |
|  |  | 000   | 102150.60              |       |
|  |  | 000   | 102150.70              |       |
| · .  | CNOP   |   |                        |       |
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| 18   |  |   |                        | -     |
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| 14   |  |   |                        |       |
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| ٠  |  | 4   |                        |       |
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|  |  | de la companya de la |                        |       |
| , <b>t</b> ,                                       |  |   |                        |       |

|      | CARD PUNCH   | TEST   |                                       | 1400                                      |            | <u> </u> |   |  |
|------|--|--|---------------------------------------|---|------------|----------|---|--|
| 0    |  | NE-NON-ECC !   | MODE                                  | 1000                                      |            |          |   |  |
| •    |  |  |                                       |   |            | A        |   |  |
|      |  | ON-ECC MODE  |                                       |   |            |          |   |  |
| @    | TABLE C  | OF STARTING  | POSITIO                               | N OF WORDS P                              | UNCHED     |          |   |  |
| 6    | WORD   | COLUMN   | ROW                                   | WORD                                      | COLUMN     | ROW      |   |  |
|      |  | 1  | 12                                    | 2   | 6          | 2        |   |  |
| 6    | 3  | 11   | 6                                     | 4   | 17         | 12       |   |  |
|      | 5  | 22   | 2                                     | 6   | 27         | 6        |   |  |
| •    | 7  | 33   | 12                                    | 8   | 38         | 2        |   |  |
|      | 99   | 43   | 6                                     | 10  | 49         | 12       |   |  |
| •    | 11   | 55   | . 2                                   | 12  | 59         | 6        |   |  |
|      | 13   | 65   | 12                                    | 14  | 70         | 2        |   |  |
| 0    | 15   | 75   | 6                                     |   |            |          |   |  |
| PCH1 | CW%CR#+PWD1  | 1,15,0   |                                       | epunch on                                 | IE CARD    |          | 102450.00 00 000360.00 00   | 102151.00  |
|      |  |  |                                       |   |            |          |   |  |
| ě    | THE FOLLOWS  | ING CWS PUNC   | CH 13 CA                              | IDS DIAGONAL                              | PATTERN    |          |   |  |
| ē    | trees r was not seen seen to be a seen to  |  |                                       |   |            |          |   | N.   |
|      | CWSCCR#,PWD  | 01.13.561.   |                                       |   |            |          | 102450.00 40 000322.04 6B   | 102152.00  |
|      | CW%CDSC#+PW  |  |                                       | <b>OPATTERN</b>                           | TEST-PUNCH | 13 CARDS | 102450.00 60 000042.04 60   | 102153.00  |
|      |  | 016112.56  |                                       |   | 13 CARDS.  |          | 102451.00 40 000302.04 60   | 102154-00  |
|      | CW%CDSC=+PW  |  | -                                     |   |            |          | 102450.00 60 000062.04 6E   | 102155.00  |
|      |  | 0162. 11.56  | L.                                    | eCARD 3                                   |            |          | 102452.00 40 000262.04 6F   | 102156.00  |
|      | CW%CDSCD+PN  |  |                                       | _   |            |          | 102450.00 60 000102.04 70   | 102157.00  |
|      | CWSCCR#.PWD  | 0163 10.56   | L.                                    | eCARD 4                                   |            |          | 102453.00 40 000242.04 71   | 102160.00  |
|      | CHECKER . OL   | WD1 +5 +561.   |                                       |   |            |          | 102450.00 60 000122.04 72   | 102161.00  |
|      | ( Wa( D)( D) * P #   |  |                                       | eCARD 5                                   |            |          | 102454.00 40 000222.04 73   | 102162.00  |
|      | CWSCCRU+PWD  | <del>)1649.56</del> 1.   |                                       |   |            |          | <del></del>   |  |
|      |  |  | -                                     |   |            |          | 102450.00 60 000142.04 74   | 102163.00  |
|      | CW%CCR#+PWE  |  | • • • • • • • • • • • • • • • • • • • | ecard 6                                   |            |          |   | 102163.00<br>102164.00   |
|      | CWSCCR#+PWE<br>CWSCDSC#+PWE<br>CWSCCR#+PWE<br>CWSCDSC#+PW  | MD1 +6 +861.<br>D165. +8 +861.<br>MD1 +7 +861.   |                                       | eCARD 6                                   |            |          | 102450.00 60 000142.04 74   | 102164.00<br>102165.00   |
|      | CWSCCR#+PWE<br>CWSCDSC#+PWE<br>CWSCCR#+PWE<br>CWSCDSC#+PW  | WD1 + 6 + 5 6 1 .<br>D165 . + 8 + 5 6 1 .  |                                       | ecard 6                                   |            |          | 102450.00 60 000142.04 74<br>102455.00 40 000202.04 75<br>102450.00 60 000162.04 76<br>102456.00 40 000162.04 77  | 102164.00<br>102165.00<br>102166.00  |
|      | CWSCCR#+PWE<br>CWSCDSC#+PWE<br>CWSCCR#+PWE<br>CWSCDSC#+PW  | ND1 +6 +861.<br>D165. +8 +861.<br>HD1 • 7 +861.<br>D166. • 7 • 861.  |                                       | ecard 7                                   |            |          | 102450.00 60 000142.04 74<br>102455.00 40 000202.04 75<br>102450.00 60 000162.04 76   | 102164.00<br>102165.00<br>102166.00<br>102167.00   |
|      | CWSCCR#+PWE<br>CWSCDSC#+PWE<br>CWSCCR#+PWE<br>CWSCDSC#+PWE<br>CWSCCR#+PWE<br>CWSCDSC#+PWE  | ND1 +6 +861.<br>D165. +8 +861.<br>HD1 • 7 +861.<br>D166. • 7 • 861.  | <b>Y</b>                              |   |            |          | 102450.00 60 000142.04 74<br>102455.00 40 000202.04 75<br>102450.00 60 000162.04 76<br>102456.00 40 000162.04 77<br>102450.00 60 000202.04 78<br>102457.00 40 000142.04 79  | 102164.00<br>102165.00<br>102166.00<br>102167.00<br>102170.00  |
|      | CWSCCR#+PWE<br>CWSCDSC#+PWE<br>CWSCCR#+PWE<br>CWSCDSC#+PWE<br>CWSCCR#+PWE<br>CWSCDSC#+PWE  | ND1 + 6 + 5 6 1 .<br>D165 - + 8 + 5 6 1 .<br>ND1 + 7 + 5 6 1 .<br>D166 - + 7 + 5 6 1 .<br>ND1 + 8 + 5 6 1 .<br>D167 - + 6 + 5 6 1 .  | <b>Y</b>                              | eCARD 7                                   |            |          | 102450.00 60 000142.04 74<br>102455.00 40 000202.04 75<br>102450.00 60 000162.04 76<br>102456.00 40 000162.04 77<br>102450.00 60 000202.04 78<br>102457.00 40 000142.04 79<br>102450.00 60 000222.04 7A   | 102164.00<br>102165.00<br>102166.00<br>102167.00<br>102170.00  |
|      | CWSCCR#+PWE CWSCDSC#+PWE CWSCDSC#+PWE CWSCCR#+PWE CWSCCR#+PWE CWSCCR#+PWE CWSCCR#+PWE CWSCCR#+PWE CWSCCR#+PWE  | ND1 + 6 + 5 6 1 .<br>D165 - + 8 + 5 6 1 .<br>ND1 + 7 + 5 6 1 .<br>D166 - + 7 + 5 6 1 .<br>ND1 + 8 + 5 6 1 .<br>D167 - + 6 + 5 6 1 .  |                                       | ecard 7                                   |            |          | 102450.00 60 000142.04 74<br>102455.00 40 000202.04 75<br>102450.00 60 000162.04 76<br>102456.00 40 000162.04 77<br>102450.00 60 000202.04 78<br>102457.00 40 000142.04 79<br>102450.00 60 000222.04 7A<br>102460.00 40 000122.04 78  | 102164.00<br>102165.00<br>102166.00<br>102167.00<br>102170.00<br>102171.00<br>102172.00  |
|      | CWSCCR#+PWE CWSCDSC#+PWE CWSCDSC#+PWE CWSCCR#+PWE CWSCCR#+PWE CWSCCR#+PWE CWSCCR#+PWE CWSCCR#+PWE CWSCCR#+PWE CWSCCR#+PWE  | ND1 + 6 + 8 6 1 .<br>D165 - + 8 + 5 6 1 .<br>ND1 + 7 + 5 6 1 .<br>D166 - + 7 + 5 6 1 .<br>ND1 + 8 + 5 6 1 .<br>ND1 + 9 + 5 6 1 .   |                                       | eCARD 7 eCARD 8 eCARD 9                   |            |          | 102450.00 60 000142.04 74<br>102455.00 40 000202.04 75<br>102450.00 60 000162.04 76<br>102456.00 40 000162.04 77<br>102450.00 60 000202.04 78<br>102457.00 40 000142.04 79<br>102450.00 60 000222.04 7A<br>102460.00 40 000122.04 78<br>102450.00 60 000242.04 7C   | 102164.00<br>102165.00<br>102166.00<br>102167.00<br>102170.00<br>102171.00<br>102172.00<br>102173.00   |
|      | CWSCCR#+PWE CWSCDSC#+PWE CWSCCR#+PWE   | ND1 + 6 + 8 6 1 .<br>D165 - + 8 + 8 6 1 .<br>ND1 + 7 + 8 6 1 .<br>D166 - + 7 + 8 6 1 .<br>ND1 + 8 + 8 6 1 .<br>D167 - + 6 + 8 6 1 .<br>D168 - 5 + 8 6 1 .  |                                       | eCARD 7                                   |            |          | 102450.00 60 000142.04 74 102455.00 40 000202.04 75 102450.00 60 000162.04 76 102456.00 40 000162.04 77 102450.00 60 000202.04 78 102457.00 40 000142.04 79 102450.00 60 000222.04 78 102460.00 40 000122.04 78 102450.00 60 000222.04 78   | 102164.00<br>102165.00<br>102166.00<br>102167.00<br>102170.00<br>102171.00<br>102172.00<br>102173.00<br>102174.00  |
|      | CWSCCR#+PWE CWSCDSC#+PWE CWSCCR#+PWE   | ND1 + 6 + 8 6 1 .<br>D165 - + 8 + 8 6 1 .<br>ND1 + 7 + 8 6 1 .<br>D166 - + 7 + 8 6 1 .<br>ND1 + 8 + 8 6 1 .<br>D167 - + 6 + 8 6 1 .<br>ND1 + 9 + 8 6 1 .<br>ND1 + 10 + 8 6 1 .   |                                       | eCARD 7 eCARD 8 eCARD 9 eCARD 10          |            |          | 102450.00 60 000142.04 74 102455.00 40 000202.04 75 102450.00 60 000162.04 76 102456.00 40 000162.04 77 102450.00 60 000202.04 78 102457.00 40 000142.04 79 102450.00 60 000222.04 78 102460.00 40 000122.04 78 102460.00 60 000242.04 7C 102461.00 40 000102.04 7D 102450.00 60 000262.04 7E   | 102164.00<br>102165.00<br>102166.00<br>102167.00<br>102170.00<br>102171.00<br>102172.00<br>102173.00<br>102174.00<br>102175.00   |
|      | CWSCCR#+PWE CWSCDSC#+PWE CWSCDSC#+PWE CWSCDSC#+PWE CWSCCR#+PWE   | ND1 + 6 + 861 + 10165 + 8 + 861 + 10166 + 7 + 861 + 10166 + 7 + 861 + 10167 + + + + + + + + + + + + + + + + + + +  |                                       | eCARD 7 eCARD 8 eCARD 9                   |            |          | 102450.00 60 000142.04 74 102455.00 40 000202.04 75 102450.00 60 000162.04 76 102456.00 40 000162.04 77 102450.00 60 000202.04 78 102457.00 40 000142.04 79 102450.00 60 000222.04 78 102460.00 40 000122.04 78 102450.00 60 000242.04 7C 102461.00 40 000102.04 7D 102450.00 60 000262.04 7E 102462.00 40 000062.04 7F   | 102164.00<br>102165.00<br>102166.00<br>102167.00<br>102170.00<br>102171.00<br>102172.00<br>102173.00<br>102174.00<br>102175.00<br>102176.00  |
|      | CWSCCR#+PWE CWSCDSC#+PWE CWSCCR#+PWE   | MD1 + 6 + 861 + 10165 + 8 + 861 + 10166 + 7 + 861 + 10166 + 7 + 861 + 10167 + + + + + + + + + + + + + + + + + + +  |                                       | eCARD 7 eCARD 8 eCARD 9 eCARD 10 eCARD 11 |            |          | 102450.00 60 000142.04 74 102455.00 40 000202.04 75 102450.00 60 000162.04 76 102456.00 40 000162.04 77 102450.00 60 000202.04 78 102457.00 40 000142.04 79 102450.00 60 000222.04 78 102460.00 40 000122.04 78 102460.00 60 000242.04 7C 102461.00 40 000102.04 7D 102450.00 60 000262.04 7E 102462.00 40 000062.04 7F 102450.00 60 000302.04 80   | 102164.00<br>102165.00<br>102166.00<br>102167.00<br>102170.00<br>102171.00<br>102172.00<br>102173.00<br>102174.00<br>102176.00<br>102177.00  |
|      | CWSCCR#+PWE CWSCDSC#+PWE CWSCDSC#+PWE CWSCCR#+PWE  | MD1 + 6 + 861 + 86 |                                       | eCARD 7 eCARD 8 eCARD 9 eCARD 10          |            |          | 102450.00 60 000142.04 74 102455.00 40 000202.04 75 102450.00 60 000162.04 76 102456.00 40 000162.04 77 102450.00 60 000202.04 78 102457.00 40 000142.04 79 102450.00 60 000222.04 78 102460.00 40 000122.04 78 102460.00 60 000222.04 76 102461.00 40 000102.04 7D 102450.00 60 000262.04 7E 102462.00 40 000062.04 7F 102450.00 60 000302.04 80 102463.00 40 000042.04 81   | 102164.00<br>102165.00<br>102166.00<br>102167.00<br>102170.00<br>102171.00<br>102172.00<br>102173.00<br>102174.00<br>102175.00<br>102176.00<br>102177.00<br>102200.00              |
|      | CWSCCR#+PWE CWSCDSC#+PWE CWSCCR#+PWE | MD1 + 6 + 861.<br>D165 + 8 + 861.<br>MD1 + 7 + 861.<br>MD1 + 8 + 861.<br>MD1 + 8 + 861.<br>MD1 + 9 + 861.<br>MD1 + 10 + 861.<br>MD1 + 10 + 861.<br>MD1 + 11 + 861.<br>MD1 + 12 + 861.<br>MD1 + 12 + 861.<br>MD1 + 12 + 861.<br>MD1 + 13 + 861.   |                                       | eCARD 7 eCARD 8 eCARD 9 eCARD 10 eCARD 11 |            |          | 102450.00 60 000142.04 74 102455.00 40 000202.04 75 102450.00 60 000162.04 76 102456.00 40 000162.04 77 102450.00 60 000202.04 78 102457.00 40 000142.04 79 102450.00 60 000222.04 78 102460.00 40 000122.04 78 102450.00 60 000242.04 7C 102461.00 40 000102.04 7D 102450.00 60 000262.04 7E 102450.00 60 000302.04 80 102450.00 60 000302.04 81 102450.00 60 000322.04 82   | 102164.00<br>102165.00<br>102166.00<br>102167.00<br>102170.00<br>102171.00<br>102172.00<br>102173.00<br>102174.00<br>102176.00<br>102177.00<br>102200.00<br>102201.00              |
|      | CWSCCR#+PWE CWSCDSC#+PWE CWSCCR#+PWE   | MD1 + 6 + 861 + 10165 + 8 + 861 + 10165 + 7 + 861 + 10166 + 7 + 861 + 10167 + 4 + 861 + 101610 + 3 + 861 + 101610 + 3 + 861 + 101610 + 3 + 861 + 101611 + 2 + 861 + 101612 + 101612 + 1 + 861 + 101612 + 1 + 861 + 101612 + 1 + 861 + 101612 + 1 + 861 + 101612 + 1 + 861 + 101612 + 1 + 861 + 101612 + 1 + 861 + 101612 + 1 + 861 + 101612 + 1 + 861 + 101612 + 1 + 861 + 101612 + 1 + 861 + 101612 + 1 + 861 + 101612 + 1 + 861 + 101612 + 101612 + 1 + 861 + 101612 + 1 + 861 + 101612 + 1 + 861 + 101612 + 1 + 861 + 101612 + 1 + 861 + 101612 + 1 + 861 + 101612 + 1 + 861 + 101612 + 101612 + 1 + 861 + 101612 + 1016 |                                       | eCARD 7 eCARD 8 eCARD 9 eCARD 10 eCARD 11 |            |          | 102450.00 60 000142.04 74 102455.00 40 000202.04 75 102450.00 60 000162.04 76 102456.00 40 000162.04 77 102450.00 60 000202.04 78 102457.00 40 000142.04 79 102450.00 60 000222.04 78 102460.00 40 000122.04 78 102460.00 60 000222.04 78 102461.00 40 000122.04 70 102461.00 40 000102.04 70 102462.00 40 000062.04 7F 102450.00 60 000302.04 80 102463.00 40 000042.04 81 102450.00 60 000322.04 82 102464.00 40 000022.04 83 | 102164.00<br>102165.00<br>102166.00<br>102167.00<br>102170.00<br>102171.00<br>102172.00<br>102173.00<br>102174.00<br>102176.00<br>102176.00<br>102200.00<br>102200.00<br>102200.00 |
|      | CWSCCR#+PWE CWSCDSC#+PWE CWSCCR#+PWE | MD1 + 6 + 861 + 10165 + 8 + 861 + 10166 + 7 + 861 + 10166 + 7 + 861 + 10167 + 4 + 861 + 10167  |                                       | eCARD 7 eCARD 8 eCARD 9 eCARD 10 eCARD 11 |            |          | 102450.00 60 000142.04 74 102455.00 40 000202.04 75 102450.00 60 000162.04 76 102456.00 40 000162.04 77 102450.00 60 000202.04 78 102457.00 40 000142.04 79 102450.00 60 000222.04 78 102460.00 40 000122.04 78 102450.00 60 000242.04 7C 102461.00 40 000102.04 7D 102450.00 60 000262.04 7E 102450.00 60 000302.04 80 102450.00 60 000302.04 81 102450.00 60 000322.04 82   | 102164.00<br>102165.00<br>102166.00<br>102167.00<br>102170.00<br>102171.00<br>102172.00<br>102173.00<br>102174.00<br>102176.00<br>102177.00<br>102200.00<br>102201.00              |

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|---------------------------------------|----------|--|------------------------------|---------------------------------------|--|-------------|
| i                                     |          | TEST TWO-ECC MODE-13 WOR                         | RDS PER CARD                 |                                       |  | *.          |
|                                       | <b>@</b> | TABLE OF STARTING PO                             | SITION OF WOR                | RDS PUNCHED                           |  |             |
|                                       | •        | ALL WORDS BEGIN IN                               |                              |                                       |  |             |
| . 1                                   | ė        | WORD COLUMN                                      | WORD (                       | OLUMN                                 |  |             |
| 1                                     | e        | 3 13   |                              | 7                                     |  |             |
|                                       |          | 5 25<br>7 37                                     | 6                            | 43                                    |  |             |
| 1                                     |          | 9 49   | 10                           | 55                                    |  | •           |
|                                       | <u> </u> | 11 61<br>13 73                                   | 12                           | 67                                    |  |             |
|                                       | <b>e</b> | TABLE OF BITS ON WHI                             | CH ECC BIT IS                | BASED                                 |  | ,           |
|                                       | <b>e</b> | ECC BITS   | DATA BITS                    |                                       |  |             |
| :                                     | e        | <b>C-</b> 0 0-                                   | .32                          |                                       |  |             |
|                                       |          | C+1 1:   | 3, 5, 6-7, 10-11             | 9 · · · 62+63 ~ · · · ·               |  |             |
|                                       | <u> </u> |  | ·7, 12-15,                   |                                       |  |             |
|                                       |          | C-16 16  | -31 ,48-63 -                 |                                       | Company de la co |             |
| · · ·                                 | e        | C+32 C<br>C-T IS BASED ON OVER                   | ), 32-63 _<br>KALL PARITY IN | CLUDING ECC BITS                      |  |             |
|                                       | <b>@</b> |  |                              |                                       |  |             |
|                                       |          |  |                              |                                       |  |             |
| ( )                                   | <u> </u> | SET PUNCH TO ECC MODE.                           | CONTROL CODE                 | 00101111                              |  |             |
|                                       | PCH2     | CW%CR#+PWD2+13+0                                 | ePUNC                        | H 1 ECC-CARD                          | 102465.00 00 000320.00 0   | 0 102205.00 |
|                                       | <u> </u> |  |                              |                                       |  |             |
|                                       |          | THE FOLLOWING CWS PUNCH                          | 9 CARDS ECC M                | ODE                                   |  |             |
|                                       |          | FLOATING ONE C-BIT PATT                          | ERN                          |                                       |  |             |
|                                       | <b>e</b> | PUNCH NINE CARDS                                 | CARD                         | FIRST WORD C+E                        | BITS   |             |
|                                       |          |  | • 1<br>• 2                   | 200<br>010                            |  |             |
|                                       |          |  | @ 3                          | 000                                   |  |             |
| 18                                    |          |  | <u> </u>                     | 020<br>001                            |  |             |
|                                       |          |  | <u>e 6</u>                   | 040<br>002                            |  |             |
| 15                                    |          |  |                              | 100                                   |  |             |
|                                       | e        |  | 9                            | 004                                   |  |             |
| ·                                     | @        | CW%CCR#.PWD2.9.\$61.                             |                              |                                       | 102465.00 40 000222.04 8   | 7 102206.00 |
|                                       |          | CWSCDSCD,PWD2,4,561.                             |                              |                                       | 102465.00 60 000102.04 8   | 102207.00   |
| ا<br>و                                |          | CWSCCRS.PWD264.,5,561.<br>CWSCDSCB.PWD2.8.861.   |                              |                                       | 102471.00 40 000122.04 8<br>102465.00 60 000202.04 8   |             |
|                                       |          | CWSCCRU+PWD268+1+S61+<br>CWSCCRU+PWD2+9+S61+     |                              |                                       | 102475.00 40.000022.04 8<br>102465.00 40 000222.04 8   | B 102212.00 |
|                                       |          | CWSCDSCO.PWD2.3.561.                             |                              |                                       | 102465.00 60 000062.04 8   | 102214.00   |
| 4                                     |          | CW%CCR#,PWD2&3.,6,\$&1.<br>CW%CDSC#.PWD2.7.\$&1. |                              |                                       | 102470.00 40 000142.04 81<br>102465.00 60 000162.04 81   |             |
|                                       |          | CW%CCR#.PWD26725561.<br>CW%CCR#.PWD2.9.561.      |                              |                                       | 102474.00 40 000042.04 90<br>102465.00 40 000222.04 90   | 0 102217.00 |
|                                       |          |  |                              |                                       |  |             |

| 181. 6            | CW%GDSCm+PWD2+2+\$61,    | 102465.00 60 000042.04 92 | 102221.00                              | And the second s |
|-------------------|--------------------------|---------------------------|--|--|
| - 1 1 1 1 <u></u> | CW%CCR#.PWD2627.\$61.    | 102467.00 40 000162.04 93 | 102222.00                              |  |
|                   | CW%CDSCU,PWD2,6,\$61.    | 102465.00 60 000142.04 94 | 102223.00                              |  |
|                   | CW%CCRD.PWD2663.561.     | 102473.00 40 000062.04 95 | 102224.00                              |  |
|                   | CW%CCR#,PWD2,9,\$61.     | 102465.00 40 000222.04 96 | 102225.00                              |  |
|                   | CW%CDSCm+PWD2+1+S61.     | 102465.00 60 000022.04 97 | 102226.00                              |  |
|                   | CW%CCR . PWD261 8. \$61. | 102466.00 40 000202.04 98 | 102227.00                              |  |
| ( <u></u>         | CW%CDSCm.PWD2.5.861.     | 102465.00 60 000122.04 99 | 102230.00                              |  |
|                   | CW%CCR#.PWD265.,4,561.   | 102472.00 40 000102.04 9A | 102231.00                              |  |
|                   | CW%CDn.PWD2.9.\$61.      | 102465.00 20 000222.04 9B | 102232.00                              |  |
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| <sup>'</sup> 5    |                          |                           |  |  |
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| •        | THE FOLLOWING CWS PUNCH 9   |               |                                       |                           |   |
|----------|-----------------------------|---------------|---------------------------------------|---------------------------|---|
|          | FLOATING ZERO C-BIT PATTERN |               |                                       |                           |   |
| <b>e</b> | PUNCH NINE CARDS            | CARD          | FIRST WORD C-BITS                     |                           |   |
|          | PORCH AIRE CANDO            | • 1           | 377                                   | ,                         | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
|          |                             | <b>A</b> 2    | 357                                   |                           |   |
|          |                             | . 1           | 376                                   |                           |   |
|          |                             | <b>a b</b>    | 337                                   |                           |   |
|          |                             | <u> </u>      | 375                                   |                           |   |
|          |                             | <b>a</b> 6    | 277                                   |                           |   |
|          |                             | <u> 7</u>     | 373                                   |                           |   |
|          |                             | <b>A</b> R    | 177                                   |                           |   |
|          |                             | <b>e</b> 9    | 367                                   |                           |   |
|          |                             |               |                                       |                           |   |
| •        | SET PUNCH TO ECC MODE. COM  | ITROL CODE 00 | 101111                                |                           |   |
|          |                             |               |                                       |                           |   |
|          | CW%CCRE.PWD3.9.5&1.         |               |                                       | 102502.00 40 000222.04 90 | 102233.0                                |
|          | CW%CDSCm+PWD3+4+\$61.       |               | · · · · · · · · · · · · · · · · · · · | 102502.00 60 000102.04 9D | 102234.0                                |
|          | CW%CCR#+PWD3645.\$61.       |               |                                       | 102506.00 40 000122.04 9E | 102235.0                                |
|          | CW%CDSCm.PWD3.8.\$61.       |               |                                       | 102502.00 60 000202.04 9F | 102236.0                                |
|          | CW%CCRD.PWD3681.\$61.       |               |                                       | 102512.00 40 000022.04 A0 | 102237.0                                |
| •        | CW%CCR#,PWD3,9,\$61.        |               |                                       | 102502.00 40 000222.04 A1 | 102240.0                                |
|          | CW%CDSCE+PWD3+3+\$61.       |               |                                       | 102502.00 60 000062.04 A2 | 102241.0                                |
|          | CW%CCR#.PWD3&36.\$&1.       |               |                                       | 102505.00 40 000142.04 A3 | 102242.0                                |
|          | CW%CDSCD.PWD3.7.\$61.       |               |                                       | 102502.00 60 000162.04 A4 | 102243.0                                |
|          | CW%CCRD.PWD2632.\$61.       |               |                                       | 102470.00 40 000042.04 A5 | 102244.0                                |
|          | CW%CCR#.PWD3.9.\$61.        |               |                                       | 102502.00 40 000222.04 A6 | 102245.0                                |
|          | CW%CDSCm+PWD3+2+\$61.       |               |                                       | 102502.00 60 000042.04 A7 | 102246.0                                |
|          | CW%CCR#+PWD362-+7+\$61-     |               |                                       | 102504.00 40 000162.04 A8 | 102247-0                                |
|          | CW%CDSC=,PWD3,6,561.        |               |                                       | 102502.00 60 000142.04 A9 | 102250.0                                |
|          | CW%CCR#.PWD3&63.\$61.       |               |                                       | 102510.00 40 000062.04 AA | 102251.0                                |
|          | CW%CCR#.PWD3.9.\$61.        |               |                                       | 102502.00 40 000222.04 AB | 102252.0                                |
|          | CW%CDSC=,PWD3,1,\$61.       |               |                                       | 102502.00 60 000022.04 AC | 102253.0                                |
|          | CW%CCR#,PWD361.,8,\$61.     |               |                                       | 102503.00 40 000202.04 AD | 102254.0                                |
|          | CW%CDSCm.PWD3.5.\$61.       |               |                                       | 102502.00 60 000122.04 AE | 102255.0                                |
|          | CW%CCR#,PWD365.,4,\$61.     |               |                                       | 102507.00 40 000102.04 AF | 102256.0                                |
|          | CW%CD=,PWD3,9,0             |               |                                       | 102502.00 20 000220.00 00 | 102257.0                                |

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|--------------|------------------------------|-----------------------------|--|-----------|
| <del>e</del> | PUNCH TEST USING TOS DATA    |                             |  |           |
| •            |                              |                             |  |           |
| <b>?</b>     | TO CHECK CARDS PUNCHED, A PR |                             |  |           |
| 0            | IN AREA AND WRITE AREA IS PR |                             |  |           |
| •            | AREA WORDS ARE PRINTED FIRST | <del></del>                 |  |           |
| 6            |                              | enon-ecc mode.              |  |           |
| РСН3         | CW&CDE+PWD4+30+0             | PUNCH 2 CARDS NON-ECC MODE  | 102513.00 20 000740.00 00                              | 102260.00 |
|              | CW%CD¤+PRES3+30+0            | eread 2 cards non-ecc mode  | 102715.00 20 000740.00 00                              | 102261.00 |
|              | CW%CDSCm.PRES1.7.\$61.       | @IDENTIFICATION             | 102677.00 60 000162.04 B3                              | 102262.00 |
|              | CW%CDSCm.PWD4,15,\$61.       |                             | 102513.00 60 000362.04 B4<br>102532.00 60 000362.04 B5 | 102263.00 |
|              | CW%CDSC¤,PWD4&15.,15,\$&1.   |                             |  |           |
|              | CW%CDSCm.PRES2.7.\$61.       | @IDENTIFICATION WORD        | 102706.00 60 000162.04 86                              | 102265.00 |
|              | CW%CDSCu.PRES3.15.561.       | <u> </u>                    | 102715.00 60 000362.04 87                              | 102266.00 |
| _            | CW%CR¤+PRES3&15++15+0        |                             | 102734.00 00 000360.00 00                              | 102267.00 |
| <b>e</b>     |                              |                             |  |           |
| •            | SET PUNCH AND READER TO ECC  | MODE. CONTROL CODE 00101111 |  |           |
|              |                              |                             |  |           |
| PCH4         | CW%CDE+PWD5+26+0             | PUNCH 2 CARDS ECC MODE      | 102551.00 20 000640.00 00                              | 102270-00 |
| . ••••       | CW%CDII+PRES3A+26+0          | PREAD 2 CARDS ECC MODE      | 102753.00 20 000640.00 00                              | 102271.00 |
|              | CW%CDSCm.PRES1.7.\$61.       | @IDENTIFICATION             | 102677.00 60 000162.04 BB                              | 102272.00 |
|              | CW%CDSCm,PWD5,13,881.        |                             | 102551.00 60 000322.04 BC                              | 102273.00 |
|              | CW%CDSCm+PWD5613.+\$61.      |                             | 102566.00 62 045720.00 00                              | 102274-00 |
|              | CW%CD5Cm, PRES2,7,\$61.      | eIDENTIFICATION WORD        | 102706.00 60 000162.04 BE                              | 102275.00 |
|              | CW%CDSCm+PRES3A+13+861.      | AIDENTILICATION HOVE        | 102753.00 60 000322.04 BF                              | 102276.00 |
|              | CW%CR#,PRES3A613.,\$61.      |                             | 102770.00 02 046000.00 00                              | 102277.00 |
| <b>^</b>     | CAMCHARLEZZYGIZE EBGIE       |                             | 102110400 02 040000400 00                              | 1022/100  |
|              |                              |                             |  |           |
|              |                              | •                           |  |           |
|              |                              |                             |  |           |

| •                                     | EXTENDED PUNCH TEST          | D FOR FCC OR NOW FCC MORE |   |           |
|---------------------------------------|------------------------------|---------------------------|---|-----------|
|                                       | FOR CHECKING, THE FOLLOWI    | D FOR FCC OR NON-ECC MODE | 7 10 1 V |           |
|                                       |                              | DING PUNCH TEST OUTPUT.   |   |           |
| <b>A</b>                              |                              | IN SAME MODE AS PUNCHED.  |   |           |
| · · · · · · · · · · · · · · · · · · · | 2.CONTROL WORDS TO PRIN      |                           | •   |           |
|                                       |                              | ENTIFIED, CORRECT DATA    |   |           |
|                                       | WILL BE PRINTED FIRST        |                           |   |           |
|                                       | TILL SE FRINTED FIRST        | eNON-ECC MODE-CF-1, 10 CA | PDS   | 3         |
|                                       |                              | enon-recembered in to ca  |   |           |
| PCH5                                  | CW%CDSCm,PWD6,15,\$61.       | ecard 6                   | 102603.00 60 000362.04 C1   | 102300.00 |
| , 3.1,5                               | CW%CCR#.PWD6.10.561.         |                           | 102603.00 40 000242.04 C2   | 102301.00 |
|                                       | CW%CDSC=,PWD6C,5,\$61.       | ecard 7                   | 102622.00 60 000122.04 C3   | 102302.00 |
|                                       | CWSCCRU.PWD6.10.SE1.         |                           | 102603.00 40 000242.04 C4   | 102303.00 |
|                                       | CW%CDSCm,PWD6D,5,\$61.       | ecard 10                  | 102627.00 60 000122.04 C5   | 102304.00 |
|                                       | CW%CCR#.PWD6.10.\$61.        |                           | 102603.00 40 000242.04 66   | 102305.00 |
|                                       | CW%CDSCm.PWD6E.5.\$61.       | ecard 11                  | 102634.00 60 000122.04 C7   | 102306.00 |
|                                       | CW%CCR#.PWD6.10.\$61.        |                           | 102603.00 40 000242.04 C8   | 102307.00 |
|                                       | CW%CDSCm,PWD6F,5,\$61.       | eCARD 12                  | 102641.00 60 000122.04 69   | 102310.00 |
|                                       | CWSCCRn.PWD6.10.SE1.         |                           | 102603.00 40 000242.04 CA   | 102311.00 |
|                                       | CW%CDSCm,PWD6G.5.\$61.       | eCARD 13                  | 102646.00 60 000122.04 CB   | 102312.00 |
|                                       | CWSCCRE.PWD6.10.561.         |                           | 102603.00 40 000242.04 CC   | 102313.00 |
|                                       | CW%CDSCm+PWD6H+5+\$61.       | ecard 14                  | 102653.00 60 000122.04 CD   | 102314.00 |
|                                       | CW#CCR#,PWD6,10,\$61.        |                           | 102603.00 40 000242.04 CE   | 102315.00 |
|                                       | CW%CDSCm+PWD6J+5+\$61.       | eCARD 15                  | 102660.00 60 000122.04 CF   | 102316.00 |
|                                       | CWSCCRU-PWD6-10-S61.         | ACADD 11                  | 102603.00 40 000242.04 DO   | 102317.00 |
|                                       | CW%CDSCm,PWD6K,5,\$61.       | ecard 16                  | 102665.00 60 000122.04 D1   | 102320.00 |
| •                                     | CW%CCR¤+PWD6+10+\$&1.        | ACIND A-4                 | 102603.00 40 000242.04 D2   | 102321.00 |
| · ·                                   | CW%CD=+PWD6L+5+0             | ecard 17                  | 102672.00 20 000120.00 00   | 102322.00 |
|                                       | CUMCOM DOCCO 150 0           | ALSE                      | 107704 00 78 004540 00 00   | 10222 00  |
| 1                                     | CW%CD#+PRES2+150+0           | OUSE THIS CW TO READ      | 102706.00 20 004540.00 00   | 102323.00 |
| <u> </u>                              |                              | @CARDS                    |   |           |
|                                       | USE THE FOLLOWING CONTROL W  | ORDS FOR PRINTOUT         |   |           |
|                                       | VOL THE TOLLOWING CONTINUE W | VILLO FOR FRENIUM         |   |           |
| ~                                     | CW%CDSCm.PRES1.7.\$61.       | <b>@</b> IDENTIFICATION   | 102677.00 60 000162.04 D5   | 102324.00 |
|                                       |                              |                           |   |           |
|                                       | CW%CDSCm.PWD6.15.\$61.       |                           | 102603.00 60 000362.04 D6   | 102325.00 |
|                                       | CW%CCR#,PWD6+10,\$61.        |                           | 102603.00 40 000242.04 D7   | 102326.00 |
|                                       | CW%CDSCm,PWD6C,5,\$61.       |                           | 102622.00 60 000122.04 D8   | 102327.00 |
|                                       | CW%CCR#,PWD6,10,\$61.        |                           | 102603.00 40 000242.04 D9   | 102330.00 |
|                                       | CW%CDSCm,PWD6D,5,\$&1.       |                           | 102627.00 60 000122.04 DA   | 102331.00 |
|                                       | CW%CCR#,PWD6,10,\$81.        |                           | 102603.00 40 000242.04 DB   | 102332.00 |
|                                       | CW&CDSCm.PWD6E.5.\$61.       |                           | 102634.00 60 000122.04 DC   | 102333.00 |
|                                       | CW%CCR#.PWD6.10.\$61.        |                           | 102603.00 40 000242.04 DD   | 102334.00 |
|                                       | CW%CDSCD.PWD6F.5.\$81.       |                           | 102641.00 60 000122.04 DE   | 102335.00 |
|                                       | CW%CCR#,PWD6,10,\$61.        |                           | 102603.00 40 000242.04 DF   | 102336.00 |
|                                       | CW%CDSCm,PWD6G,5,\$61.       |                           | 102646.00 60 000122.04 E0   | 102337.00 |
|                                       | CW%CCR#,PWD6,10,\$61.        |                           | 102603.00 40 000242.04 E1   | 102340.00 |
|                                       | CW%CDSCm.PWD6H.5.\$61.       | · ·                       | 102653.00 60 000122.04 E2   | 102341.00 |
|                                       | CW%CCR#,PWD6,10,\$61.        |                           | 102603.00 40 000242.04 E3   | 102342.00 |
|                                       | CW%CDSCD.PWD6J.5.\$61.       |                           | 102660.00 60 000122.04 E4   | 102343.00 |
|                                       | CW%CCR#.PWD6.10.561.         |                           | 102603.00 40 000242.04 E5   | 102344.00 |
|                                       | CW%CDSCH.PWD6K.5.\$61.       |                           | 102665.00 60 000122.04 E6   | 102345.00 |
|                                       | CW%CCR#,PWD6,10,\$61,        |                           | 102603.00 40 000242.04 E7   | 102346.00 |
|                                       | CW&CDSCH.PWD6L.5.561.        |                           | 102672.00 60 000122.04 E8   | 102347.00 |
| •                                     |                              |                           |   |           |
|                                       | CW%CDSCm.PRES2.7.861.        | eldentification word      | 102706.00 60 000162.04 E9   | 102350.00 |
|                                       | CW%CDSCm.PRES4.15.561.       | efrom read area           | 103005.00 60 000362.04 EA   | 102351.00 |
|                                       | CW%CDSC=+PRES5+15+\$61.      |                           | 103024.00 60 000362.04 EB   | 102352.00 |
|                                       | CWSCDSCm.PRES6.15.561.       |                           | 103043.00 60 000362.04 EC   | 102353.00 |
|                                       | CWWCD5CH+PRES7,15,561.       |                           | 103062.00 60 000362.04 ED   | 102354.08 |

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|                                       | CW%CDSCu,PRES8,15,\$61.  CW%CDSCu,PRES9,15,\$61.  CW%CDSCu,PRES10,15,\$61.  CW%CDSCu,PRES11,15,\$61.  CW%CDSCu,PRES12,15,\$61.  CW%CRu,PRES13,15,0 | 103101.00 60:000362.04 EE 103120.00 60 000362.04 EF 103137.00 60 000362.04 F0 103156.00 60 000362.04 F1 103175.00 60 000362.04 F2 103214.00 00 000360.00 00 | 102355.00<br>102356.00<br>102357.00<br>102360.00<br>102361.00<br>102362.00 |
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| 5                                     |  |   |  |
| 4                                     |  |   |  |
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| <u> </u> | SET PUNCH AND READER TO ECC  | MODE. CONTROL CODE 00101111   |                           | · · · · · · · · · · · · · · · · · · · |
|----------|--|---|---------------------------|---------------------------------------|
|          |  |   |                           |                                       |
| <b>e</b> |  | @ECC MODE-CF-1:10 CARDS   |                           |                                       |
| PCH6     | CW%CCR#.PWD6.8.\$61.   |   | 102603.00 40 000202.04 F4 | 102363.00                             |
|          | CW%CDSC#.PWD6B.5.\$61.   | ecard 6   | 102615.00 60 000122.04 F5 | 102364.00                             |
|          | CW%CCR#,PWD6,8,\$61.   |   | 102603.00 40 000202.04 F6 | 102365.00                             |
|          | CW%CDSC#+PWD6C+5+\$61.   | ecard 7   | 102622.00 60 000122.04 F7 | 102366-00                             |
|          | CW%CCR#,PWD6,8,\$&1.   |   | 102603.00 40 000202.04 F8 | 102367.00                             |
|          | CW%CDSCm.PWD6D.5.\$61.   | ecard 10  | 102627.00 60 000122.04 F9 | 102370.00                             |
| 4        | CW%CCRE+PWD6+8+\$61.   |   | 102603.00 40 000202.04 FA | 102371.00                             |
|          | CW%CDSCH.PWD6F.5.\$61.   | ecard 11  | 102634.00 60 000122.04 FB | 102372.00                             |
|          | CW%CCR#,PWD6,8,\$61.   |   | 102603.00 40 000202.04 FC | 102373.00                             |
|          | CW%CDSCD.PWD6F.5.S61.  | eCARD 12  | 102641.00 60 000122.04 FD | 102374.00                             |
|          | CW%CCR##PWD6+8+\$61.   |   | 102603.00 40 000202.04 FE | 102375.00                             |
|          | CW%CDSCm.PWD6G.5.\$61.   | ecard 13  | 102646.00 60 000122.04 FF | 102376.00                             |
|          | CW%CCR=,PWD6,8,\$61.   |   | 102603.00 40 000202.05 00 | 102377.00                             |
|          | CW%CDSCm.PWD6H.5.\$61.   | eCARD 14  | 102653.00 60 000122.05 01 | 102400.00                             |
|          | CW%CCR0,PWD6,8,\$61.   |   | 102603.00 40 000202.05 02 | 102401.00                             |
|          | CW%CDSCD.PWD6J.5.\$61.   | eCARD 15  | 102660.00 60 000122.05 03 | 102402.00                             |
|          | CW%CCRD.PWD6.8.\$61.   | -   | 102603.00 40 000202.05 04 | 102403.00                             |
|          | CW%CDSCu.PWD6K.5.561.  | ecard 16  | 102665.00 60 000122.05 05 | 102404-00                             |
|          | CW%CCR#+PWD6+8+\$61.   |   | 102603.00 40 000202.05 06 | 102405.00                             |
|          | CWSCDD.PWD6L.5.SE1.  | eCARD 17  | 102672.00 20 000122.05 07 | 102406.00                             |
| •        |  |   |                           |                                       |
|          | CW%CD=+PRES14+130+0  | CONTROL WORD TO READ CARDS  | 103233.00 20 004040.00 00 | 102407.00                             |
|          |  |   |                           |                                       |
| <b>@</b> | USE THE FOLLOWING CONTROL W  | ORDS FOR PRINTOUT   |                           |                                       |
|          |  |   |                           |                                       |
|          | CW#CDSCm.PRES1.7.\$61.   | @IDENTIFICATION .   | 102677.00 60 000162.05 09 | 102410.00                             |
|          | CW%CCR#.PWD6.8.\$61.   | ewrite area   | 102603.00 40 000202.05 0A | 102411.00                             |
|          | CW%CDSCm,PWD6B,5,\$61.   |   | 102615.00 60 000122.05 08 | 102412.00                             |
|          | CW%CCR#,PWD6,8,\$61.   | @WRITE AREA   | 102603.00 40 000202.05 00 | 102413.00                             |
|          | CW%CDSCm.PWD6C.5.561.  | A. 10 V W W   | 102622.00 60 000122.05 0D | 102414.00                             |
|          | CWSCCR#.PWD6.8.\$61.   | ewrite area   | 102603.00 40 000202.05 0E | 102415.00                             |
|          | CW%CDSCH+PWD6D+5+\$61.   |   | 102627.00 60 000122.05 OF | 102416.00                             |
|          | CW%CCRD,PWD6,8,\$61.   |   | 102603.00 40 000202.05 10 | 102417.00                             |
|          | CW%CDSCm+PWD6E+5+861.  |   | 102634.00 60 000122.05 11 | 102420.00                             |
|          | CW%CCRU,PWD6.8,\$61.   |   | 102603.00 40 000202.05 12 | 102421.00                             |
|          | CW%CDSCm,PWD6F,5,\$61.   |   | 102641.00 60 000122.05 13 | 102422.00                             |
|          | CWSCCRH-PWD6+8+\$61.   |   | 102603.00 40 000202.05 14 | 102423.00                             |
|          | CW%CDSCm,PWD6G,5,\$61.   |   | 102646.00 60 000122.05 15 | 102424.00                             |
|          | CW%CCR#+PWD6+8+\$61.   |   | 102603.00 40 000202.05 16 | 102425.00                             |
|          | CW%CDSCu.PWD6H;5;\$61.   |   | 102653.00 60 000122.05 17 | 102426.00                             |
|          | CW%CCR#+PWD6+8+861.  |   | 102603.00 40 000202.05 18 | 102427.00                             |
|          | the state of the s |   | 102660.00 60 000122.05 19 | 102430.00                             |
|          | CWSCCRM.PWD6.8.561.  | NUMBER OF THE PROPERTY OF THE | 102603.00 40 000202.05 1A | 102431.00                             |
|          | CW%CDSCm,PWD6K,5,\$61.   |   | 102665.00 60 000122.05 18 | 102432.00                             |
|          | CWSCCRH-PWD6+8+561.  |   | 102603.00 40 000202.05 10 | 102433.00                             |
|          | CW%CDSCm.PWD6L.5,\$61.   |   | 102672.00 60 000122.05 1D | 102434.00                             |
|          | CWSCDSCH-PRES2.7.\$61.   | @IDENTIFICATION WORD  | 102706.00 60 000162.05 1E | 102435.00                             |
|          | CWSCDSCH, PRESIA, 13, \$61.  | eread area  | 103233.00 60 000322.05 1F | 102436.00                             |
|          | CW&CDSCu-PRESI5-13-561.  |   | 103250.00 60,000322.05 20 | 102437.00                             |
|          | CW%CDSCm+PRES16+13+561.  |   | 103265.00 60 000322.05 21 | 102440.00                             |
|          | CW%CDSCm.PRES17.13.861.  |   | 103302.00 60 000322.05 22 | 102441.00                             |
|          | CW%CDSCIPPRES18+13+\$61.   |   | 103317.00 60 000322.05 23 | 102442.00                             |
|          | CW%CDSCI-PRES19.13.561.  |   | 103334.00 60 000322.05 24 | 102443.00                             |
|          | CW%CDSC#+PRE\$20+13+\$61.  |   | 103351.00 60 000322.05 25 | 102444.00                             |
|          | CW%CDSCm,PRES21,13,561.  |   | 103366.00 60 000322.05 26 | 102445.00                             |

| 1 (                                    | CW%CDSCm+PRES22+13+\$61.                           | 103403.00 60 000322.05 27<br>103420.00 60 000322.05 28 | 102446.00              |
|--|--|--|------------------------|
| · .                                    |  | · · · · · · · · · · · · · · · · · · ·                  |                        |
|  | e  |  |                        |
| 1                                      | PUNCH TEST DATA                                    |  |                        |
|  | e NON-ECC MODE DATA                                |  |                        |
|  | PWD1 %8mDD%BU+8+8m+200+004+000+040+001+000+010+000 | 200  | 102450.00              |
| 1                                      | , MDI  | 004  | 102450-10              |
| !                                      |  | 000<br>040   | 102450.20<br>102450.30 |
|  |  | 001  | 102450.40              |
|  |  | 000  | 102450.50              |
|  | ·  | 000  | 102450.70              |
|  | %8пDD%BU+8+8п+100+002+000+020+000+200+004+000      | 100  | 102451.00              |
|  |  | 002<br>000   | 102451.10<br>102451.20 |
|  |  | 020  | 102451.30              |
|  |  | 000<br>  | 102451.40<br>102451.50 |
| ,                                      |  | 004  | 102451.60              |
| . ,                                    | %8mDD%BU,8,8m,040,001,000,010,000,100,002,000      | 000  | 102451.70<br>102452.00 |
|  |  | 001  | 102452.10              |
|  |  | 000<br>  | 102452.20<br>102452.30 |
|  |  | 000  | 102452.40              |
|  |  | 100<br>002   | 102452.50<br>102452.60 |
|  |  | 000  | 102452.70              |
|  | %8¤DD%BU,8,8¤,020,000,200,004,000,040,001,000      | 020<br>000   | 102453.00<br>102453.10 |
|  |  | 200  | 102453.20              |
|  |  | 004<br>000   | 102453.30<br>102453.40 |
|  |  | 040  | 102453.50              |
| ************************************** |  | 001  | 102453.60<br>102453.70 |
|  | %8mDD%BU,8,8m,010,000,100,002,000,020,000,200      | 010  | 102454.00              |
| . ·                                    |  | 000<br>100   | 102454.10<br>102454.20 |
|  | ·  | 002  | 102454.30              |
| ř                                      |  | 000<br>020   | 102454•40<br>102454•50 |
| 8                                      |  | 000  | 102454-60              |
|  | %8mDD%BU,8,8m,004,000,040,001,000,010,000,100      | 200  | 102454.70<br>102455.00 |
| 5                                      |  | 000  | 102455.10              |
|  |  | 040<br>001   | 102455.20<br>102455.30 |
|  |  | 000  | 102455.40              |
| ۲ ,                                    |  | 010<br>000   | 102455•50<br>102455•60 |
|  |  | 100  | 102455.70              |
| <b>e</b>                               | %8¤DD%BU,8,8¤,002,000,020,000,200,004,000,040      | 002  | 102456.00<br>102456.10 |
|  |  | 020  | 102456.20              |
| 4                                      |  | 200  | 102456.30<br>102456.40 |
|  |  | 004  | 102456.50              |
|  |  | 000  | 102456.60              |

|   |                          | %8nDD%BU,8,8m,001,000,010,000,100,002,000,020                       | A                                     | 001  | 102457.00  | Ų (    |
|---|--------------------------|---|---------------------------------------|--|--|--------|
| - 1<br>                                 |                          |   | · · · · · · · · · · · · · · · · · · · | 000  | 102457-10  |        |
|   |                          |   |                                       | 010<br>000   | 102457•20<br>102457•30   |        |
|   |                          |   |                                       | 100  | 102457.40  |        |
|   |                          |   |                                       | 002  | 102457-50  |        |
|   |                          |   |                                       | 000  | 102457.60  |        |
|   |                          | ##-DDWDU # #- 000 200 004 000 004 001 000 010                       |                                       | 020  | 102457.70<br>102460.00   |        |
|   |                          | %8mDD%BU,8,8m,000,200,004,000,040,001,000,010                       |                                       | 200  | 102460.10  |        |
| 1                                       |                          |   |                                       | 004  | 102460.20  | ·      |
|   |                          |   |                                       | 000  | 102460.30  |        |
|   |                          |   |                                       | 040<br>001   | 102460•40<br>102460•50   |        |
|   |                          |   |                                       | 000  | 102460.60  |        |
|   |                          |   |                                       | 010  | 102460.70  |        |
|   |                          | %8nDD%BU,8,8n,000,100,002,000,020,000,200,004                       |                                       | 900  | 102461.00  |        |
|   |                          |   |                                       | 100  | 102461.10  | NA.    |
| 1                                       |                          |   |                                       | 002  | 102461.20<br>102461.30   |        |
|   |                          |   |                                       | 020  | 102461.40  |        |
|   |                          |   |                                       | 000  | 102461.50  |        |
|   |                          |   |                                       | 200  | 102461.60  |        |
| -                                       |                          | MACDARIL 8 0m 000 040 003 000 010 000 100 000                       |                                       | 004  | 102461.70<br>102462.00   |        |
| ***<br>                                 |                          | %8mDD%BU,8,8m,000,040,001,000,010,000,100,002                       |                                       | 040  | 102462.10  |        |
|   |                          |   |                                       | 001  | 102462.20  |        |
| · · · · · · · · · · · · · · · · · · ·   |                          |   |                                       | 000  | 102462.30  |        |
| 1                                       |                          |   |                                       | 010  | 102462.40  |        |
|   |                          | · · · · · · · · · · · · · · · · · · ·                               |                                       | 000<br>100   | 102462.50<br>102462.60   |        |
| 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - |                          |   |                                       | 002  | 102462.70  |        |
|   |                          | %8mDD%BU,8,8m,000,020,000,200,004,000,040,001                       |                                       | 000  | 102463.00  |        |
|   |                          |   |                                       | 020  | 102463.10  |        |
| <u>(</u>                                |                          |   |                                       | 000  | 102463.20  |        |
|   |                          |   |                                       | 200<br>004   | 102463.30<br>102463.40   |        |
|   |                          |   |                                       | 000  | 102463.50  |        |
|   |                          |   |                                       | 040  | 102463.60  |        |
|   |                          |   |                                       | 001  | 102463.70  |        |
|   |                          | %8mDD%BU,8,8m,000,010,000,100,002,000,020,000                       |                                       | 000<br>010   | 1024 <b>64.</b> 00<br>1024 <b>64.</b> 10   |        |
| · 1                                     |                          |   |                                       | 000  | 102464.20  |        |
|   |                          |   |                                       | 100  | 102464.30  |        |
| 1                                       |                          |   |                                       | 002  | 102464.40  |        |
| ·                                       |                          |   |                                       | 000  | 102464.50<br>102464.60   |        |
|   |                          |   |                                       | 000  | 102464.70  |        |
| 18                                      | @                        | THE FOLLOWING ARE DATA WORDS FOR THE ECC                            |                                       |  | 202101010  |        |
|   |                          | MODE-THE CHECK BITS ARE IN OCTAL NOTATION                           |                                       |  |  |        |
| (                                       | <b>e</b>                 |   |                                       |  |  |        |
| 1.5                                     | PWD2                     | FLOATING ZERO PATTERN %8HDD%BU,8,8H,301,200,000,000,101,200,000,000 | e C-BITS<br>e377                      | 301  | 102465.00  |        |
|   | PWUZ                     | #6HDD#509696H 90192009000910192009000                               | 6311                                  | 200  | 102465.10  |        |
|   |                          |   |                                       | 000  | 102465.20  |        |
| ,1 ¥                                    |                          |   |                                       | 000  | 102465.30  |        |
| 1                                       |                          |   |                                       | 101  | 102465.40  | 4)<br> |
| l                                       |                          |   |                                       | 200  | 102465.50<br>102465.60   |        |
|   |                          |   |                                       | * 000<br>000   | 102465.70  | 3      |
|   |                          | %8mDD%BU,8,8m,350,200,200,000,230,200,200,000                       | e177                                  | 350  | 102466.00  |        |
| 5                                       |                          |   |                                       | 200  | 102466.10  |        |
| 1                                       |                          |   |                                       | 200<br>000   | 102466•20<br>102466•30   |        |
|   |                          |   |                                       | 230  | 102466.40  |        |
| the state of                            |                          |   |                                       | 200  | 102466.50  |        |
|   | The second of the second |   |                                       | A Company of the Comp | and the second s |        |

.

|                  | %8mDD%8U,8,8m,020,000,000,000,240,000,000,000  | e277  | 000                                     | 102466.70<br>102467.00 | **************************************   |
|------------------|--|---|---|------------------------|--|
|                  | E CHENT WOOD ON TO CONTRACT TO | V2  |   |                        |  |
|                  |  |   | 000                                     | 102467.10              |  |
|                  |  |   | 000                                     | 102467.20              |  |
|                  |  | - LA ST L | 000                                     | 102467-30              |  |
|                  |  |   | 240                                     | 102467-40              |  |
|                  |  |   | 000                                     | 102467.50              | , , ,  |
| 1                |  |   | 000                                     | 102467.60              | i e  |
|                  |  |   | 000                                     | 102467.70              |  |
|                  | %8mDD%BU,8.8m,002,000,000,000,210,000,000,000  | @337  | 002                                     | 102470.00              |  |
| · ·              |  |   | 000                                     | 102470-10              |  |
|                  |  |   | 000                                     | 102470.20<br>102470.30 |  |
|                  |  |   | 210                                     | 102470.40              |  |
| l                |  |   | 000                                     | 102470.50              |  |
|                  | ·  |   | 000                                     | 102470-60              |  |
|                  |  |   | 000                                     | 102470.70              |  |
| 1                | %8mDD%BU,8,8m,000,010,000,000,200,200,000,000  | <b>@357</b>   | 000                                     | 102471.00              |  |
|                  |  |   | 010                                     | 102471.10              |  |
| {                |  |   | 000                                     | 102471.20              |  |
|                  |  |   | 000                                     | 102471.30              |  |
|                  |  |   | 200                                     | 102471.40              |  |
|                  |  |   | 200                                     | 102471-50              |  |
|                  |  |   | 000                                     | 102471-60              |  |
|                  |  |   | 000                                     | 102471.70              |  |
|                  | %8mDD%BU,8,8m,000,000,000,200,200,000,200,000  | <b>e367</b>   | 000                                     | 102472.00              |  |
|                  |  |   | 000                                     | 102472.10              |  |
|                  |  |   | 000                                     | 102472.20              |  |
|                  | ·  |   | 200                                     | 102472-30              |  |
| † ' <sub>7</sub> |  |   | 200                                     | 102472.40              |  |
| ( ,              |  |   | 000                                     | 102472.50<br>102472.60 |  |
|                  |  |   | 200<br><b>000</b>                       | 102472.70              |  |
|                  | %8mDD%BU,8,8m,000,000,000,200,200,200,000,000  | e373  | 000                                     | 102473.00              |  |
| r                | ######################################   | ₩ J ( J   | 000                                     | 102473.10              |  |
|                  |  |   | 000                                     | 102473.20              |  |
|                  |  |   | 200                                     | 102473.30              |  |
|                  |  |   | 200                                     | 102473.40              |  |
|                  |  |   | 200                                     | 102473.50              |  |
|                  |  |   | 000                                     | 102473.60              |  |
|                  |  |   | 000                                     | 102473.70              |  |
|                  | %8mDD%BU,8,8m,140,000,000,000,020,000,000,000  | e375  | 140                                     | 102474.00              |  |
|                  |  |   | 000                                     | 102474-10              |  |
|                  |  |   | 000                                     | 102474.20              |  |
|                  |  |   | 000                                     | 102474.30<br>102474.40 |  |
|                  |  |   | 020<br>000                              | 102474+50              | 1  |
| 18               |  |   | 000                                     | 102474.60              |  |
| · {              |  |   | 000                                     | 102474.70              |  |
|                  | DD%BU,64,8m,0  |   | 000000000000000000000000000000000000000 | 102475.00              |  |
| 15               | DD\$BU.64.8m.0   |   | 0000000000000000000000                  | 102476.00              |  |
| 10               | DD%BU,64,8m,0  |   | 000000000000000000000000000000000000000 | 102477.00              |  |
|                  | DD\$8U.64.8U.0   |   | 000000000000000000000000000000000000000 | 102500.00              |  |
| 1                | DD%BU,64,8m,0  |   | 000000000000000000000000000000000000000 | 102501.00              |  |
| 17               | FLOATRNG ONE PATTERN   | C-BITS  |   |                        |  |
| PWD3             | %8mDD%BU,8,8m,350,200,200,000,000,000,000,000  | <b>@2</b> 00  | 350                                     | 102502.00              |  |
|                  |  |   | 200                                     | 102502-10              |  |
| ٩                |  |   | 200                                     | 102502+20              | . 4  |
|                  |  |   | 000                                     | 102502+30              |  |
| <br>             | $\Phi^{*}$   |   | 000                                     | 102502.40              |  |
| <b>1</b> 4       |  |   | 000                                     | 102502.50<br>102502.60 |  |
| 1                |  |   | * 000                                   | 102502.60              | S. S.  |
|                  |  |   | บยบ                                     | <b>エリモンリエモ・リ</b> び     |  |
|                  | %8pD%BU.8.8p.050.200.000.000.000.000.200.000   | @100  | 050                                     | 102503.00              | and the second of the second o |
|                  | %8mDD%BU,8,8m,050,200,000,000,000,000,200,000  | <b>e1</b> 00  | 050<br>200                              | 102503.00              | position of the second of the  |

|                                       |   | The state of the s | 000               | 102503.20              |   |
|---------------------------------------|---|--|-------------------|------------------------|---|
|                                       |   |  | 000               | 102503.30              |   |
|                                       |   |  | 000               | 102503+40<br>102503+50 |   |
| · · · · · · · · · · · · · · · · · · · |   |  | 200               | 102503.60              |   |
|                                       |   |  | 000               | 102503.70              |   |
| 4                                     | %8mDD%BU,8,8m,110,200,000,000,000,000,200,000   | <b>@04</b> 0   | 110               | 102504.00              |   |
|                                       |   |  | 200               | 102504.10<br>102504.20 |   |
|                                       |   |  | 000               | 102504.20              |   |
|                                       |   |  | 000               | 102504.40              |   |
|                                       |   |  | 000               | 102504.50              |   |
|                                       |   |  | 200               | 102504-60              |   |
|                                       | #4~DD#B!! 9 0~ 140 200 000 000 000 000 200 000  | 4030   | 000               | 102504.70<br>102505.00 |   |
|                                       | %8mDD%BU+8+8m+140+200+000+000+000+000+200+000   | <b>@</b> 020   | 140<br>200        | 102505.10              |   |
| I                                     |   |  | 000               | 102505.20              |   |
|                                       |   | · ·  | 000               | 102505.30              |   |
|                                       |   |  | 000               | 102505-40              |   |
|                                       |   |  | 000               | 102505.50              |   |
| ,                                     |   |  | 200<br>000        | 102505.60<br>102505.70 |   |
|                                       | %8mDD%BU.8.8m.160.000.000.000.000.000.200.000   | <b>e</b> 010   | 160               | 102506.00              |   |
|                                       |   |  | 000               | 102506-10              | : |
| ear .                                 |   |  | 000               | 102506-20              |   |
|                                       |   |  | 000               | 102506.30<br>102506.40 |   |
|                                       |   |  | 000               | 102506.50              |   |
|                                       |   |  | 200               | 102506.60              |   |
| * * * * * * * * * * * * * * * * * * * |   |  | 000               | 102506.70              |   |
|                                       | %8mDD%BU,8,8m,160,000,000,000,000,200,000,000   | €004   | 160               | 102507.00              |   |
|                                       |   |  | <b>000</b>        | 102507.10<br>102507.20 |   |
|                                       |   |  | 000               | 102507.30              |   |
| (                                     |   |  | 000               | 102507.40              |   |
| • .                                   |   |  | 200               | 102507-50              |   |
|                                       |   |  | 000               | 102507.60              |   |
| 1                                     | %8mDD%8U,8,8m,350,200,000,000,200,200,000       | <b>e</b> 002   | <u>000</u><br>350 | 102507.70<br>102510.00 |   |
|                                       |   |  | 200               | 102510.10              |   |
| • 1                                   |   |  | 000               | 102510.20              |   |
|                                       |   |  | 000               | 102510.30              |   |
|                                       |   |  | 200               | 102510.40<br>102510.50 |   |
|                                       |   |  | 000               | 102510.60              |   |
| · **                                  |   |  | 000               | 102510+70              |   |
|                                       | %8¤DD%BU+8+8¤+030+200+000+000+000,200+000+000   | <b>e</b> 001   | 030               | 102511.00              |   |
| 8                                     |   |  | 200               | 102511.10              |   |
| -                                     |   |  | 000               | 102511.20<br>102511.30 |   |
|                                       |   |  | 000               | 102511.40              |   |
| 5                                     |   |  | 200               | 102511.50              |   |
| 9                                     |   |  | 000               | 102511.60              |   |
|                                       | MAMPNADII. 0. AM. 48A. 550. 500. 500. 500. 500. | 0000   | 000               | 102511.70              |   |
| · ·<br>(                              | %8¤DD%BU,8,8¤,350,000,000,200,000,000,000       | <u>e</u> 000   | <b>350</b>        | 102512.00<br>102512.10 |   |
|                                       |   |  | 000               | 102512.20              |   |
|                                       |   |  | 200               | 102512.30              |   |
|                                       |   |  | 000               | 102512.40              |   |
|                                       |   |  | 7 000             | 102512.50              |   |
|                                       |   |  | 000               | 102512.60              |   |
| 4                                     |   |  | 500               | 102512.70              |   |
| ¥0                                    | CNOP  |  |                   |                        |   |
|                                       |   |  |                   |                        |   |

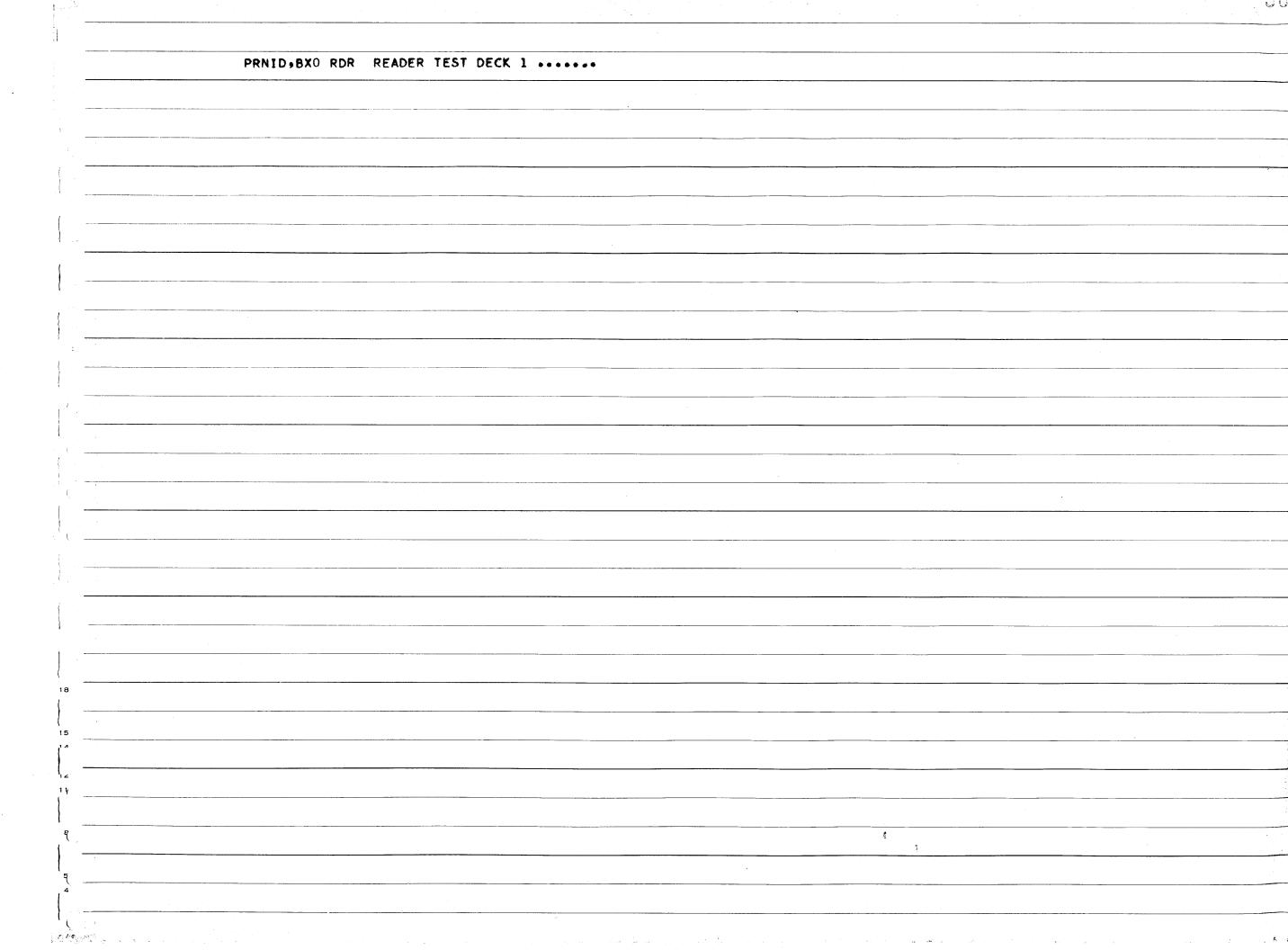
|          |                                       | EXTENDED PUNCH TEST DATA  | The state of the s | The second of th |   |
|----------|---------------------------------------|---|--|--|---|
|          | PWD4                                  | %8mDD%BU,8,8m,000 eCCB#CARRIAGE CONTROL BYTE  | 000  | 102513.00<br>102513.10   |   |
|          |                                       | & AZDDONBU.8.80. PUNCH TEST USING IQS - DATA-THIS IS Z                                  |  | 102517.50  |   |
|          |                                       | % AZDDD%BU,8,80,CARD ONE OF PWD4 DATA WORDS. Z  |  | 102511.50  |   |
|          |                                       | % AZHDD%BU.8.8H.IDENTIFIED BY A 1 IN COLUMN 80.Z  |  | 102527.10  |   |
|          |                                       | % AZmDD%BU+8+8m+ROW 9. ECC MODEZ  | 000  | 102531.00  |   |
|          |                                       | %8nDD%BU,8,8n,000,000,000,000,000,000,000,001   | 000  | 102531.10  |   |
|          |                                       |   | 000  | 102531.20  |   |
|          |                                       |   | 000  | 102531+30  |   |
|          |                                       |   | 000  | 102531-40  |   |
| <u></u>  |                                       |   | 000  | 102531.50  |   |
|          |                                       |   | 000  | 102531.60  |   |
|          |                                       |   | 001  | 102531.70  |   |
|          |                                       | \$8mDD\$BU+8+8m+000 eCCB  | 000  | 102532.00  |   |
|          |                                       | %8mDD%BU+8+8m+000 CCB % AZmDD%BU+8+8m+ THIS IS CARD TWO OF PWD4 DATA Z                  |  | 102532.10  |   |
|          |                                       | % AZEDD%BU.8.8E.WORDS. IT IS IDENTIFIED WITH A 12                                       |  | 102536.10  |   |
|          |                                       | % AZIDD%BU.8.8II. IN COLUMN 80. ROW 8. ECC MODEZ  |  | 102542-10  |   |
|          | J. J. W. Mills J.                     |   | 000000000000000000000000000000000000000  | 102546.00  |   |
|          |                                       | DD%BU,64,8m,0   | 000000000000000000000000000000000000000  | 102547.00  |   |
|          |                                       | DD%BU+64+8¤+0<br>%8¤DD%BU+8+8¤+000+000+000+000+000+000                                  | 000  | 102550.00  |   |
|          |                                       |   | 000  | 102550+10  |   |
|          |                                       |   | 000  | 102550-20  |   |
| 7        |                                       |   | 000  | 102550.30  |   |
|          |                                       |   | 000  | 102550.40  |   |
|          |                                       |   | 000  | 102550.50  |   |
|          |                                       |   | 000  | 102550.60  |   |
| !<br>    |                                       |   | 002  | 102550.70  |   |
|          | 0                                     |   |  |  |   |
| (        | PWD5                                  | %8nDD%BU+8+8n+000   | 000  | 102551.00  |   |
|          |                                       | % AZEDD%BU,8.8E, THIS IS CARD ONE OF PUDS DATA Z  |  | 102551.10  |   |
|          |                                       | % AZHDD%BU+8+8H+WORDS. IT IS IDENTIFIED WITH A 1Z                                       |  | 102555.00  |   |
| (        |                                       | % AZEDD%BU,8,8E, IN COLUMN 78, ROW 869, NO-ECC. Z                                       | · · · · · · · · · · · · · · · · · · ·  | 102561.00  |   |
| ·        |                                       | %8nDD%8U,8,8n,000,000,000,000,000,000,000,000   | 000  | 102565.00  |   |
|          |                                       |   | 000  | 102565.10  |   |
| (        |                                       |   | 000  |  |   |
|          |                                       |   | 000  | 102565.30  |   |
|          |                                       |   | 000  | 102565.40  |   |
|          |                                       |   | 000  | 102565.50  |   |
| ·        |                                       |   | 000  | 102565.60  |   |
|          |                                       |   | 003  | 102565.70  |   |
|          |                                       | %8mDD%BU+8+8m+000   | 000  | 102566-00  |   |
|          |                                       | % AZIDD%BU,8,811, THIS IS CARD TWO OF PWD5 DATA Z                                       |  | 102566.10  |   |
|          |                                       | % AZEDD%BU.8.8E.WORDS. IT IS IDENTIFIED WITH A 1Z                                       |  | 102572.00  |   |
|          |                                       | % AZEDD%RU.8.8E. IN COLUMN 78, ROW 7.NO-ECC MODEZ                                       |  | 102576.00  |   |
|          |                                       | %8mDD%BU,8,8m,000,000,000,000,000,000,000,004   | 000  | 102602.00  |   |
| 3        |                                       |   | 000  | 102602-10  |   |
| 1        |                                       |   | 000  | 102602.20  |   |
|          |                                       |   | 000  | 102602.30  |   |
| 5        | · · · · · · · · · · · · · · · · · · · |   | 000  | 102602.40  |   |
| s        |                                       |   | 000  | 102602.50  |   |
|          |                                       |   | 000  | 102602.60  |   |
| ۷        |                                       |   | 004<br>000   | 102602•70<br>102603•00   |   |
| Υ        | PWD6                                  | %8mDD%8U,8,8m,000   | 000  | 102603.10  |   |
|          |                                       | % AZEDD%BU,8,8E,XTENDED CF-1 PUNCH TESTZ  |  | 105003010  |   |
| <u>:</u> | DMV4 v                                | % AZIDD%BU,8,811, CARD IS NUMBERED OCTAL IN LAST Z                                      |  | 102606.00  |   |
| 1        | PWD6A                                 | % AZEDD%BU,8,8E, CARD IS NOMBERED OCTAL IN LAST Z % AZEDD%BU,8,8E,COLUMN, NON-ECC MODEZ |  | 102612.00  |   |
|          | PWD6B                                 | % AZBDD%BU,8,8B,COLUMN. NON-ECC MODE  |  | 102615.00  |   |
| 55.      | F#000                                 | % AZEDD%BU,8,8E,000,000,000,000,000,000,000,000   | 000  | 102621.00  |   |
| 1        |                                       | MOHPOMOGEOGRAPOOLACOCACOCACOCACOCACOCACOCACOCACOCACOCA                                  | 000  | 102621.10  |   |
|          |                                       |   | 000  | 102621.20  |   |
| •        |                                       |   | <b>000</b>   |  |   |
| <u> </u> |                                       |   | 000  | 102621.30  | The second se |

| 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - |                   |  | 000           | 102621.50              |  |
|---|-------------------|--|---------------|------------------------|--|
|   |                   |  | 000           | 102621.60<br>102621.70 |  |
|   | DWDCC             | N AZ-DANDU G.G. CADO THO OF EVIENDED CELL TEST 7   | 006           | 102622.00              |  |
|   | PWD6C             | % AZDD%BU.8.8m.CARD TWO OF EXTENDED CF-1 TESTZ<br>%8DDD%BU.8.8m,000,000,000,000,000,000,000  | 000           | 102626.00              |  |
|   |                   | MONDO NO CONTROL OF CO | 000           | 102626.10              |  |
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|   |                   |  | 000           | 102626.50              |  |
|   |                   |  | 000<br>007    | 102626.60<br>102626.70 |  |
|   | PWD6D             | % AZDDD%BU,8,8D,CARD THREE OF EXTENDED CF1 TEST.Z  | 001           | 102627.00              |  |
|   | FNUOD             | %8¤DD%BU+8+8¤+000+000+000+000+000+000+000  | 000           | 102633.00              |  |
| -                                       |                   |  | 000           | 102633.10              |  |
|   |                   |  | 000           | 102633.20              |  |
|   |                   |  | 000           | 102633-30              |  |
|   | <del></del>       |  | 000           | 102633.40              |  |
|   |                   |  | 000           | 102633.50              |  |
|   | *                 |  | 000           | 102633.60              |  |
|   | DUNCE             | W ATHRONOUS G. G. CARR CARR CAUR OF EVICENCES CE. 1 TECT 7   | 010           | 102633.70              |  |
|   | PWUDE             | % AZ¤DD%BU,8,8¤,CARD FOUR OF EXTENDED CF-1 TEST.Z<br>%8¤DD%BU,8,8¤,000,000,000,000,000,000,0011  | 000           | 102634.00<br>102640.00 |  |
|   |                   | #9#00#004949#400040004000400040004011  | 000           | 102640.10              |  |
|   |                   |  | 000           | 102640.20              |  |
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| · • • • • • • • • • • • • • • • • • • • |                   |  | 011 102640.70 |                        |  |
|   | PWD6F             | % AZUDD%BU.8.8U.CARD FIVE OF EXTENDED CF-1 TEST.Z  |               | 102641.00              |  |
| -                                       |                   | %8mDD%BU+8+8m+000+000+000+000+000+000+012  | 000           | 102645.00              |  |
|   |                   |  | 000           | 102645.10<br>102645.20 |  |
|   | ARCTICA NO. 4. 4. |  | 000           | 102645.30              |  |
|   |                   |  | 000           | 102645.40              |  |
|   |                   |  | 000           | 102645.50              |  |
|   |                   |  | 000           | 102645.60              |  |
|   | <del></del>       |  | 012           | 102645.70              |  |
|   | PWD6G             | # AZDD%BU,8,8D,CARD SIX OF EXTENDED CF-1 TESTZ   | 0.00          | 102646.00              |  |
|   |                   | %8mDD%BU,8,8m,000,000,000,000,000,000,000,013  | 000           | 102652.00              |  |
|   |                   |  | 000           | 102652.10<br>102652.20 |  |
|   |                   |  | 000           | 102652.30              |  |
|   |                   |  | 000           | 102652.40              |  |
|   |                   |  | 000           | 102652.50              |  |
|   |                   |  | 000           | 102652.60              |  |
|   |                   |  | 013           | 102652.70              |  |
|   | PWD6H             | % AZDDD%BU.8.8B.CARD SEVEN OF EXTENDED CF1 TEST.Z  |               | 102653.00              |  |
|   |                   | %8mDD%BU.8.8m.000.000.000.000.000.000.000.000.00   | 000           | 102657.00              |  |
|   |                   |  | 000           | 102657.10              | . 4  |
|   |                   |  | 000           | 102657.20<br>102657.30 |  |
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|   |                   |  | 014           | 102657.70              | į.   |
|   | PWD6J             | % AZEDD%BU+8+8E+CARD EIGHT OF EXTENDED CF1 TEST.Z  |               | 102660.00              |  |
|   |                   | %8mDD%BU,8,8m,000,000,000,000,000,000,000,015  | 000           | 102664.00              | · <del>-</del>   |
|   |                   |  | 000           | 102664-10              | <u> </u>   |
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| *1. **                                  |                   |  | 000           | 102664-60<br>102664-70 |  |
|   | e e e e e         |  |               | IVEGOTIO               | and the second s |
|   |                   |  |               |                        |  |

| PWD(          | SK & AZDDBBU.8.80 CARD | NINE OF EXTENDED CF-1 TEST.Z | 20 (1 m) (1 |     | 102665.00 | — 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 |
|---------------|------------------------|------------------------------|---|-----|-----------|---|
|               | *8000%BU,8,80,000,000, | 000+000+000+000+016          | ·   | 000 | 102671.00 |   |
|               |                        |                              |   | 000 | 102671.10 |   |
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|               |                        |                              | *   | 016 | 102671.70 |   |
| PWD           | SL % AZDD%BU+8+80+CARD | TEN OF EXTENDED CF-1 TEST Z  |   |     | 102672.00 |   |
|               | %8mDD%BU,8,8m,000,000, | 000,000,000,000,000,017      |   | 000 | 102676.00 |   |
|               |                        |                              |   | 000 | 102676.10 |   |
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|               |                        |                              |   | 000 | 102676.60 |   |
|               |                        |                              |   | 017 | 102676.70 |   |
| PRES          | \$1 %8mDD%8U.8.8m.001  |                              |   | 001 | 102677.00 |   |
|               | % AZDDD%BU.8.8D.THIS   | IS THE DATA FROM THE WRITEZ  |   |     | 102677.10 |   |
|               | % AZDD%BU,8,80, AREA   |                              |   |     | 102703.00 |   |
| PRES          |                        |                              |   | 001 | 102706.00 |   |
|               |                        | IS THE DATA FROM THE READ Z  |   |     | 102706.10 |   |
|               | % AZDD%BU.8.80. AREA   |                              |   |     | 102712.00 |   |
| PRES          | 53 DR%BU,64,88,30      | eREAD-IN AREA                | 36.00   |     | 102715.00 |   |
| PRES          | 53A DR%BU.64.8E.26     | eREAD-IN AREA-ECC            | 32.00   |     | 102753.00 |   |
| PRES          |                        | eNON-ECC MODE                | 17.00   |     | 103005.00 |   |
| PRES          | 55 DR%BU,64,8m,15      |                              | 17.00   |     | 103024.00 |   |
| PRES          | 56 DR%8U+64+8m+15      |                              | 17.00   |     | 103043.00 |   |
| PRES          |                        |                              | 17.00   |     | 103062.00 |   |
| PRES          |                        |                              | 17.00   |     | 103101.00 |   |
| PRES          |                        |                              | 17.00   |     | 103120.00 |   |
| PRES          |                        |                              | 17.00   |     | 103137.00 |   |
| PRES          |                        |                              | 17.00   |     | 103156.00 |   |
| PRES          |                        |                              | 17.00   |     | 103175.00 |   |
|               | 513 DR%BU.64.80.15     |                              | 17.00   |     | 103214.00 |   |
| PRES          | <del></del>            | eread-in area                | 15.00   |     | 103233.00 |   |
| PRES          |                        | eNON-ECC MODE                | 15.00   |     | 103250.00 |   |
| PRES          | <del>-</del>           |                              | 15.00   |     | 103265.00 |   |
| PRES          |                        |                              | 15.00   |     | 103302.00 |   |
| PRES          |                        |                              | 15.00   |     | 103317.00 |   |
|               | 519 DR%BU+64+8m+13     |                              | 15.00   |     | 103334.00 |   |
| PRES          |                        |                              | 15.00   |     | 103351.00 |   |
| PRES          |                        | ,                            | 15.00   |     | 103366.00 |   |
| PRES          |                        |                              | 15.00   |     | 103403.00 |   |
| PRES          |                        |                              | 15.00   |     | 103420.00 |   |
| END           |                        | •                            | 1.00  |     | 103435.00 |   |
| Taja, 7 ₹ que | END-START              |                              | 100000.00   |     | 103436.00 |   |

|       | SLC+64+0      |                                       | 000100.00 |         |
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|       | PUNID.BXO-RDR | BX0-RDR                               |           |         |
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|---------------------------------------|----------|--|---------------------------------------|-----------|
| · · · · · · · · · · · · · · · · · · · |          | SLC+64+0   |                                       | 000100•00 |
|                                       |          | SLC VALUE IS MEANINGLESS                                   |                                       |           |
|                                       |          | PUNFUL   |                                       |           |
|                                       |          | THIS IS TEST PATTERN DECK 1. RESULTS CAN BE                | · · · · · · · · · · · · · · · · · · · |           |
| <u> </u>                              |          | EASILY DETERMINED BY USING CHKRDR CONTROL WORD             |                                       |           |
|                                       | <u>e</u> | SEQUENCE AND/OR DATA DISPLAY.                              |                                       |           |
| <u>-</u>                              |          | A SECOND PATTERN DECK WILL BE MADE AVAILABLE               |                                       |           |
|                                       | <u>e</u> | WHICH CONTAINS SPECIAL PATTERN CARDS. CHECKS ARE           |                                       |           |
|                                       |          | MADE BY DISPLAYING MEMORY. USE TEST DECK 2 IF              |                                       |           |
|                                       | e        | PRINTER OPERATION IS DOUBTFUL                              |                                       |           |
|                                       |          |  |                                       |           |
|                                       |          |  |                                       |           |
|                                       | CARDI    | %8¤DD%8U+8+8¤+000  | 000                                   | 000100.00 |
|                                       |          | % AZDDONBU-8-80-CARD1FIRST CARD READDATA IS INZ            |                                       | 000100.10 |
|                                       | ,        | % AZEDD%BU.8,8E, IQS FORMAT, WORD COUNT ON READ WAS 15 .Z  |                                       | 000105.00 |
|                                       |          | % AZDDD%BU.8.8D.READER PATTERNS IN LATER TESTZ             |                                       | 000112.00 |
|                                       |          | %8mDD%BU.8.8m.000.000.000.000.000.000.000.001 @CRD 1 IDENT | 000                                   | 000116.00 |
| -                                     |          |  | 000                                   | 000116.10 |
|                                       |          |  | 000                                   | 000116.20 |
|                                       |          |  | 000                                   | 000116.30 |
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|                                       |          |  | 000                                   | 000116.50 |
|                                       | 14       |  | 000                                   | 000116.60 |
|                                       |          |  | 001                                   | 000116.70 |
|                                       |          |  |                                       |           |
|                                       | CARD2    | %8¤DD%BU+8+8¤+000  | 000                                   | 000117.00 |
|                                       |          | % AZDD%8U,8,8D,WDCT1 Z                                     |                                       | 000117.10 |
|                                       |          | % AZDD%BU,8,80,FAILURE Z                                   |                                       | 000120.00 |
|                                       |          | % AZEDD%BU.8.8E.IF THIS PRINTS OR IS IN MEM. WD Z          |                                       | 000121.00 |
|                                       |          | % AZDDD%BU+8+8D+CNT-1-WAS NOT HANDLED BY BXZ               |                                       | 000125.00 |
|                                       |          | DR%BU.64.80.4 @WORDS 11-14 CARD 2 ARE ZERO. 4.00           |                                       | 000131.00 |

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| : '  | %8mDD%BU+8+8m+000+000+000+000+000+000+000 +000 +   |  | 000 | 000135.00 | Q L  |
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| CARD3  | %8¤DD%8U•8•8¤•000 @  |  | 000 | 000136.00 |  |
| :1   | % AZDD%BU,8,8m,WORD COUNT -2- Z  |  |     | 000136.10 | · · · · · · · · · · · · · · · · · · ·  |
|  | % AZDDONBU.8.80.FAILURE Z  |  |     | 000140.00 |  |
|  | DR%BU.64.8m.11 @CARD 3 BLANK LOCATIONS   | 13.00  |     | 000141.00 |  |
|  | %8mDD%8U.8.8m.000.000.000.000.000.000.000.003 @CRD 3 IDENT   | · · · · · · · · · · · · · · · · · · ·  | 000 | 000154.00 |  |
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| 1  |  | And the state of t | 003 | 000154.70 |  |
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| CARD4  | %8¤DD%BU,8,8¤,000  |  | 000 | 000155.00 |  |
| 18   | % AZEDD%BU.8.8E.IF THIS PRINTS SKIP FLAG FAILEDZ   |  |     | 000155.10 | , a -  |
|  | % AZIIDD%BU,8,8II,CARD4-SKIP FLAG TESTZ  |  |     | 000161.00 |  |
| 15   | DR%BU,64,8m,7  | 7.00   |     | 000164.00 |  |
| 14   | %8¤DD%BU,8,8¤,000,000,000,000,000,000,000,004 @CRD 4 IDENT   |  | 000 | 000173.00 |  |
| 1γ   |  |  | 000 | 000173.10 | 1<br>1   |
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|          | CARD5         | %8 mDD%BU • 8 • 8 m • 000  | 000   | 000174.00 |  |
|          |               | % AZEDD%BU,8,8E,CARD 5 THREE CARD READ, ABCDEFGHIJKLMNOZ   |       | 000174.10 |  |
|          |               | % ABDDD%BU,8,80,PQRSTUVWXYZ 0123456789 CARD 5 THREE CARDB  |       | 000201.00 |  |
|          |               | % A9000%BU,8,80, READ ABCDEFGHIJKLMNOPDRSTUVWXYZ9  |       | 000206.00 |  |
|          |               | %8mDD%8U+8,8m+000+000+000+000+000+000+000 @CRD 5 IDENT   | 000   | 000212.00 |  |
|          |               |  | 000   | 000212.10 |  |
|          |               |  | 000   | 000212.20 |  |
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| <i>-</i> |               |  | 005   | 000212.70 |  |
|          |               |  |       |           |  |
| (        | CARD6         | %8¤DD%BU,8,8¤,000  | 000   | 000213.00 |  |
|          |               | % AZEDD%BU,8,8E,CARD 63 CARD READ, CARD 2 HIJKLMNOZ  |       | 000213.10 |  |
|          |               | % ABIDD%BU.8.8II.PQRSTUVWXYZ 0123456789 CARD 6 THREE CARDS   |       | 000220.00 |  |
|          | :             | % A9mDD%BU,8,8m, READ ABCDEFGHIJKLMNOPQRSTUVWXYZ9  |       | 000225.00 |  |
|          |               | %8mDD%8U.8.8m.000.000.000.000.000.000.000.006 @CRD 6 IDENT   | 000   | 000231.00 |  |
|          |               |  | 000   | 000231.10 |  |
|          |               |  | 000   | 000231.20 |  |
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|          | •             |  |       |           |  |
|          | CARD7         | %8¤DD%BU,8,8¤,000  | 3 000 | 000232.00 |  |
| <b>8</b> | WF1110-F      | % AZIIDD%BU,8,8II,CARD 73 CARD READ, CARD 3 HIJKLMNOZ  | š     | 000232.10 |  |
| 5        |               | % ABIDD%BU,8,81,PQRSTUVWXYZ 0123456789 CARD 7 THREE CARDB  |       | 000237.00 |  |
| 4        |               | % A9mDD%BU,8,8m, READ ABCDEFGHIJKLMNOPQRSTUVWXYZ9  | •     | 000244.00 |  |
| <u> </u> |               | %8mDD%8U,8.8m,000,000,000,000,000,000,000.007 @CRD 7 IDENT   | 000   | 000250.00 |  |
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| · · · · · · · · · · · · · · · · · · · |  |           |     |           |
| CARD8                                 | %8¤DD%BU,8,8¤,000  |           | 000 | 000251.00 |
|                                       | % AZDDD%BU+8+8D+CARD 8 TEN CARD READ-83888888888888888     |           |     | 000251.10 |
|                                       | % AZ¤DD%BU,8,8¤,88888888888888888888888888888888           |           |     | 000256+00 |
|                                       | % AZDDD%BU+8+8D+ TEN CARD READ+-CARD I Z                   |           |     | 000263.00 |
| · · · · · · · · · · · · · · · · · · · | DR%BU,64,8m,1  | 1.00      |     | 000266.00 |
|                                       | %8¤DD%BU,8,8¤,000,000,000,000,000,000,000,010 @CRD 8 IDENT |           | 000 | 000267.00 |
| (                                     |  |           | 000 | 000267+10 |
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|                                       |  |           | 000 | 000267.30 |
|                                       |  |           | 000 | 000267.40 |
|                                       |  |           | 000 | 000267.50 |
| (                                     |  |           | 000 | 000267.60 |
|                                       |  |           | 010 | 000267.70 |
| <u> </u>                              |  |           |     |           |
| CARD9                                 | %8¤DD%BU,8,8¤,000  |           | 000 | 000270.00 |
|                                       | % AZDDD%BU.8.8D.CARD 9 TEN CARD READ. 9999999999999992     |           |     | 000270.10 |
| 18                                    | % AZmDD%BU.8.8m,9999999999999999999999999999999999         |           |     | 000275.00 |
| 15                                    | % AZEDD%BU,8,8E, -TEN CARD READCARD 2 Z                    |           |     | 000302.00 |
| 14                                    | DR%BU+64+8¤+1  | 1.00      |     | 000305.00 |
| 1 ¥<br>                               | %80DD%BU.8.80.000.000.000.000.000.000.000.000.0            |           | 000 | 000306.00 |
|                                       |  |           | 000 | 000306.10 |
| <u> </u>                              |  |           | 000 | 000306•20 |
| <b>5 </b>                             | •  | ÷         | 000 | 000306.30 |
| 4                                     |  |           | 000 | 000306.40 |
|                                       |  | 200 miles | 000 | 000306.50 |

| A STATE OF THE STA |   |       | 000                                       | 000306+60   |
|--|---|-------|---|-------------|
|  |   |       | 011                                       | 000306.70   |
| CAR  | RD10 %8¤D0%BU•8•8¤•000                                      |       | 000                                       | 000307.00 6 |
|  | % AZDDO%BU.8.8D.CARD 10 TEN CARD READ. Z                    |       |   | 000307.10   |
| (  | DR%BU.64.8m.7   | 7.00  |   | 000312.00   |
|  | % AZDDD%BU,8,80, TEN CARD READCARD 3 Z                      |       |   | 000321.00   |
|  | DR%BU.64.85.1   | 1.00  |   | 000324+00   |
|  | %8mDD%BU.8.8m.000.000.000.000.000.000.000.012 @CRD 10 IDENT |       | 000                                       | 000325.00   |
|  |   |       | 000                                       | 000325.10   |
|  |   |       | 000                                       | 000325.20   |
|  |   |       | 000                                       | 000325.30   |
|  |   |       | 000                                       | 000325,40   |
|  |   |       | 000                                       | 000325.50   |
|  |   |       | 000                                       | 000325.60   |
| . (  |   |       | 012                                       | 000325.70   |
|  |   |       |   |             |
| CAR  | RD11 %8mDD%BU.8.8m.000                                      |       | 000                                       | 000326.00 6 |
|  | % AZDD%BU,8,80,CARD 11 TEN CARD READ. Z                     |       |   | 000326.10   |
|  | DR%BU,64,8m,7   | 7.00  |   | 000331.00   |
|  | % AZEDD%BU.8.8ED. TEN CARD READCARD 4 Z                     |       |   | 000340.00   |
| :  | DR%BU,64,8m,1   | 1.00  |   | 000343.00   |
| 1  | %8mDD%BU,8,8m,000,000,000,000,000,000,000,013 @CRD 11 IDENT |       | 000                                       | 000344.00   |
| 18   |   | :<br> | 000                                       | 000344.10   |
|  |   |       | 000                                       | 000344.20   |
| 15   |   |       | 000                                       | 000344.30   |
|  |   |       | 000                                       | 000344.40   |
| 1 1  |   |       | 000                                       | 000344.50   |
| 8  |   |       | 000                                       | 000344•60   |
|  |   |       | 013                                       | 000344•70   |
| 5  | ŧ.  |       |   |             |
| CAR  | RD12 %8mDD%BU+8+8m+000                                      |       | 000                                       | 000345.00 6 |
|  | % AZEDD%BU,8,80,CARD 12.TEN CARD READ. Z                    |       | er en | 909345.10   |

|  | DR%BU+64+8m+7  | 7.00 |        | 000350.00   |
|--|--|------|--------|-------------|
| * *************************************  | % AZHDD%BU+8+8H+ TEN CARD READ+-CARD 5 Z                     | ·    | \$     | 000357.00   |
|  | DR%BU+64+8m+1  | 1.00 |        | 000362.00   |
| The second secon | \$8mDD%BU,8,8m,000,000,000,000,000,000,000,014 @CRD 12 IDENT |      | 000    | 000363.00   |
|  |  |      | 000    | 000363.10   |
|  |  |      | 000    | 000363+20   |
| -  |  |      | 000    | 000363.30   |
|  |  |      | 000    | 000363.40   |
|  |  |      | 000    | 000363.50   |
|  |  |      | 000    | 000363.60   |
|  |  |      | 014    | 000363.70   |
|  |  |      |        |             |
|  | ARD13 %8¤DD%BU,8,8¤,000                                      |      | 000    | 000364.00 6 |
|  | % AZDDD%BU,8+80+CARD 13 TEN CARD READ. Z                     |      |        | 000364.10   |
|  | DR%BU,64,80,7  | 7.00 | 74-1-1 | 000367.00   |
|  | % AZDDD%BU,8,80, TEN CARD READ,-CARD 6 Z                     |      |        | 000376.00   |
|  | DR%BU+64+8¤+1  | 1.00 |        | 000401.00   |
|  | %8¤DD%BU.8.8¤.000.000.000.000.000.000.000.015 @CRD 13 IDENT  |      | 000    | 000402.00   |
|  |  |      | 000    | 000402.10   |
|  |  |      | 000    | 000402.20   |
|  |  |      | 000    | 000402.30   |
|  |  |      | 000    | 000402.40   |
|  |  |      | 000    | 000402.50   |
|  |  |      | 000    | 000402.60   |
|  |  | `    | 015    | 000402.70   |
|  |  |      |        | 9           |
| CA   | ARD14 %8=DD%BU,8,8=,000                                      |      | 000    | 000403.00 6 |
|  | % AZDD%BU+8+8D+CARD 14 TEN CARD READ. Z                      |      |        | 000403.10   |
| , <del></del>  | DR%BU,64,8m,7  | 7.00 |        | 000406+00   |
| ·  | % AZIIDD%BU,8,8II, TEN CARD READCARD 7 Z                     |      |        | 000415.00   |
|  | DR%BU,64,8m,1  | 1.00 |        | 000420.00   |
| ·  | %8mDD%BU,8,8m,000,000,000,000,000,000,016 @CRD 14 IDENT      |      | 000    | 000421.00   |
| sie •  |  | ÷    | 000    | 000421-10   |

|   |   |      | 000 | 000421.20  |
|---|---|------|-----|--|
|   |   |      | 000 | 000421.30  |
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|   | •   |      | 000 | 000421.50  |
|   |   |      | 000 | 000421.60  |
|   |   |      | 016 | 000421.70  |
|   |   |      |     | <u>.                                    </u>   |
| CARD15                                    | %8nDD%BU,8,8n,000                                       |      | 000 | 000422.00 6  |
|   | % AZIIDD%BU+8+8II+CARD 15 TEN CARD READ. Z              |      |     | 000422.10  |
|   | DR%BU.64.80.7   | 7.00 |     | 000425.00  |
|   | % AZDDD%BU+8+8D+ TEN CARD READCARD 8 Z                  |      |     | 000434.00  |
|   | DR%8U.64.8m.1   | 1.00 |     | 000437.00  |
|   | %8mDD%8U+8+8m+000+000+000+000+000+000+017 @CRD 15 IDENT |      | 000 | 000440.00  |
|   |   |      | 000 | 000440+10  |
|   |   |      | 000 | 000440.20  |
|   |   |      | 000 | 000440.30  |
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| *   |   |      | 017 | 000440•70  |
|   |   |      |     |  |
| CARD16                                    | %8¤DD%BU+8+8¤+000                                       |      | 000 | 000441.00 6  |
|   | % AZUDD%BU.8.80.CARD 16 TEN CARD READ. Z                |      |     | 000441.10  |
|   | DR\$BU.64.8m.7  | 7.00 |     | 000444.00  |
| a   | % AZEDDNBU.8.8E. TEN CARD READCARD 2 Z                  |      |     | 000453.00  |
| 5 <sub>y</sub>                            | DR%BU,64,8m,1   | 1.00 |     | 000456.00  |
|   | %8mDD%8U.8.8m.000.000.000.000.000.000.000.000.00        |      | 000 | 000457.00  |
| ¥   |   |      | 000 |  |
|   |   |      | 000 | 000457+20  |
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|                                       |  |  | 021      | 000457.70   |
|---------------------------------------|--|--|----------|-------------|
| CARD17                                | %8mDD%BU+8+8m+000  |  | 000      | 000460.00 6 |
|                                       | % AZDDD%BU+8+8D+CARD 17 TEN CARD READ. Z   |  |          | 000460.10   |
|                                       | DR%BU,64.85,7  | 7.00   |          | 000463.00   |
| <u> </u>                              | % AZEDD%BU+8+8E+ TEN CARD READCARD 10Z   | · · · · · · · · · · · · · · · · · · ·  |          | 000472.00   |
|                                       | DR%BU,64,8m,1  | 1.00   |          | 000475.00   |
|                                       | %8mDD%BU,8,8m,000,000,000,000,000,000,000,002 eCRD 17 IDE  | ENT  | 000      | 000476.00   |
|                                       |  |  | 000      | 000476.10   |
| <u> </u>                              |  |  | 000      | 000476.20   |
| \<br><u></u>                          |  |  | 000      | 000476-30   |
|                                       |  |  | 000      | 000476.40   |
| · ·                                   |  |  | 000      | 000476.50   |
|                                       |  |  | 000      | 000476+60   |
|                                       |  | N. N   | 022      | 000476-70   |
| •                                     | Market Comment of the | Carrier St.  |          |             |
| CARD18                                | %8mDD%BU,8,8m,000  |  | 000      | 000477.00 6 |
|                                       | % AZDDD%BU,8,8D,CARD 18. TWO CARD READ WITH MF-0. ONLY Z   | Commence Com |          | 000477.10   |
|                                       | % AZDDD%BU,8,8D,ONE CARD SHOULD READZ  | in the second se |          | 000504.00   |
| · · · · · · · · · · · · · · · · · · · | DR%BU,64,8m,6  | 6.00   | <u>J</u> | 000507.00   |
| l                                     | %8mDD%BU,8,8m,000,000,000,000,000,000,000,000 eCRD 18 IDE  | INT SEE  | 000      | 000515.00   |
|                                       |  | and the second s | 000      | 000515•10   |
|                                       |  |  | 000      | 000515.20   |
|                                       |  |  | 000      | 000515.30   |
| 18                                    |  |  | 000      | 000515.40   |
| 15                                    |  |  | 000      | 000515.50   |
| 1.                                    |  |  | 000      | 000515.60   |
| 114                                   | •  |  | 023      | 000515.70   |
|                                       |  |  |          |             |
| ( CARD19                              | %8mDD%BU,8,8m,000  |  | 000      | 000516.00 6 |
| ا<br>ق                                | % AZEDD%BU.8.8E.THIS CARD SHOULD NOT BE READ Z   | ٤  |          | 000516.10   |
|                                       | % AZDDD%BU.8.8D.CARD 19 Z  |  | 4.       | 000522.00   |
|                                       | DR%BU,64,8m,10   | 12.00  |          | 000523.00   |

| %8mDD%BU.8.8m.000.000.000.000.000.000 | 000.024 @CRD 19 IDENT                  | 000 000535.00  |
|---------------------------------------|--|--|
|                                       |  | 000 000535.10  |
| ·                                     | ·                                      | 000 000535.20  |
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|                                       |  | 000 000535.40  |
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|                                       |  | 024 000535.70  |
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| NOP                                   | 0.39 00                                | 000536.00  |
| END+64.0                              | 100,00                                 | 000536.40  |
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|                                       | NOP END.64.0                           | NOP 0.30 00 END.64.0 100,00  |